# Oil, Paint and Drug Reporter

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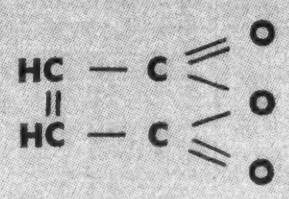

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MAR 6 '50


# Oil, Paint and Drug Reporter

Volume 157 No. 10 | 30 Church Street, New York 7, N. Y. | March 6, 1950


## Oilseeds, Milk Powder Sales Prices Listed

Prices at which its holdings of various products will be offered for domestic use and for export during the month of March were announced February 28 by the Commodity Corporation of the Department of Agriculture. Among the products were the following:—

Nonfat dry milk solids in carload lots only, spray process, 97,000,000 pounds, domestic price 13 cents per pound, f.o.b. location of stock in any state (export price ½ cent less); roller process, 110,000,000 pounds, domestic price 11 cents per pound, f.o.b. location of stock in any state (export price ½ cent less).

Farmers' stock peanuts for edible purposes, Spanish type, west of Mississippi river, 14,000 tons, domestic price $3.27 for each 1 percent "sound mature kernels" contained in a net weight ton, f.o.b. location of stock west of Mississippi; runner type, 5,500 tons, domestic price $3.23 for each 1 percent "sound mature kernels" contained in a net weight ton, f.o.b. location of stock. All prices subject to premiums or discounts for qualities.

No. 2 shelled peanuts containing usual quantities of oil stock, 15,000,000 pounds, export price 10½ cents per pound, f.a.s. vessel, U. S. Gulf and southeast ports.

Cottonseed oil, basis prime crude, in tankcar lots only, 10,000,000 pounds, domestic price 13⅛ cents per pound, f.o.b. tankcars at producing mills; export price is the market price on the date of sale.

Linseed oil, raw, 450,000,000 pounds, domestic price, f.o.b. tankcars at storage

—*Continued on page 70*

### *Tariff Reduction Parley To Be Held in September*

The third round of tariff reduction negotiations by the signatory nations to the Geneva general agreement on tariffs and trade will take place at Torquay, England, sometime late in September. The exact date for the start of negotiations has not been fixed, but September 28 is the date most mentioned.

In addition, the Department of State announced last week that the tariff concessions initially negotiated with Greece at Annecy, France, last year will become effective March 9, as a result of Greece taking steps to adhere to the general agreement. Greece is the second among the ten new acceding countries which negotiated at Annecy to take the actions. Haiti was the first.

## Nat'l Science Foundation Bill Gets House Approval

The house last week passed the national science foundation bill (S. 247) and sent the measure back to the senate. The bill does not differ greatly from the provisions which previously had been approved by the senate and it is not anticipated that any great difficulty stands in the way of agreement on its final terms.

# Price Trend Makes Another Gain

There was more than a little price activity in the markets for chemicals, oils, and drugs. Some new areas were reached by the changes, and those of recent upgoing continued that characteristic. Many of the other changes also were on the upside, advances as a whole outnumbering reductions by 70 percent.

The net effect of the price changes was another lift for the overall index number to the extent of 0.4 point. At this time a year ago the trend was downward so the drop since that time has been cut to 17.3 points. The latest number is but 3.1 points below that of the close of 1949.

Higher levels were reached in heavy acids, fats and oils, botanical drugs, and essential oils. The last two are both now above last year's level; all other divisions are lower. An advance in muriatic acid in tankcars was the unusual item. A similar movement in sulphuric would not be unexpected. The unusual changes downward were in synthetic methanol and refined creosote. Some cuts in petroleum derivatives also were not in keeping with expectations in the realm of fuels.

Aromatic plant products, including essential oils, repeated their upward movement. Peppers and cloves headed the advance; cassias were all on the downside. Hemlock and spruce oils gave a new aspect to the upward predominance in price changes in essential oils. There was little new about the similar trend of fats and oils. Pressure of imported material sent fishmeals down while fish oils were going up. Feeder interest repeated its uplifting effect on packinghouse by-products. Paucity of supplies was behind the uptrend in botanical drugs.

The soft-coal mess put several tightening bights around the coaltar chemicals industry, and production of many basic materials was curtailed. There was some talk that allocation of such materials might become necessary, but the pressure of demand is still lessened by the inability of consuming plants to operate at capacity because of insufficient fuel. There is a growing uneasiness in all sorts of markets over what will be the situation when the influences of spring seasonal activities come into play.

The dwindling of coal stocks is beginning to be felt in many places among producers of heavy chemicals; a number of units have been closed. In some instances power plant operations are hampered because their coalpiles contain too much ice and snow. Here again the seriousness of the situation is mitigated by the fact that consuming plants are in the same boat.

### OPD Price Index

The OIL, PAINT AND DRUG REPORTER'S relative record of prices for chemicals and related materials is currently as follows:—

| Mar. 3, 1950 | Feb. 24, 1950 | Dec. 30, 1949 | Mar. 4, 1949 |
|---|---|---|---|
| 121.7 | 121.3 | 124.8 | 139.0 |

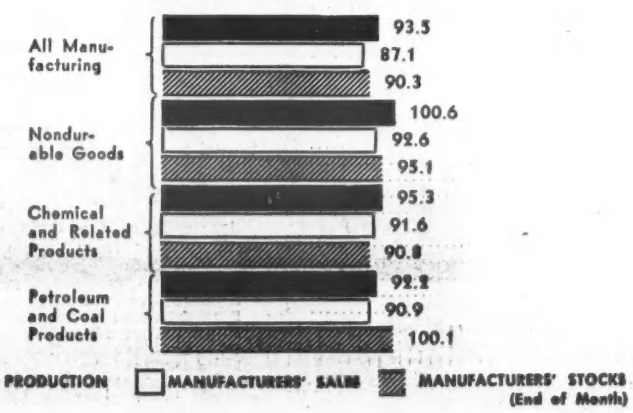
The base of the OPD Price Index is the average of prices in 1926 and 1936, those years representing extremes of price undulations in the interwar period.

OPD Index Monthly Averages

| | 1950 | 1949 | 1947 | 1946 | 1941 |
|---|---|---|---|---|---|
| January | 123.2 | 142.0 | 150.9 | 135.3 | 107.3 |
| February | 121.3 | 140.4 | 151.9 | 135.4 | 110.3 |

### Business in December, 1949

100=Same Month in 1948




# Inorganic Chemicals 1949 Output Well Maintained But Below 1948

Production of inorganic chemicals was maintained at a high level in 1949 but failed to reach the record total of 1948, according to a preliminary report released last week by the Bureau of the Census of the Department of Commerce. The slightly lower production last year reflected that of manufacturing generally and showed its greatest weakness around the midyear when all manufacturing slumped. Of forty-eight chemicals whose production totals were reported by the bureau, twenty-nine registered lower output in 1949 over 1948, while nineteen showed increases.

The 1949 production of inorganic chemicals, as compared with that of the previous year, was reported by the bureau, in short tons unless otherwise specified, as follows:—

| | 1949 | 1948 |
|---|---|---|
| Ammonia, synthetic anhydrous | 1,294,057 | 1,089,786 |
| Ammonium nitrate, original solution | | |
| Total (100% $NH_4NO_3$) | 1,018,706 | 988,342 |
| Fertilizer grade, 100% $NH_4NO_3$ | 857,846 | 803,520 |
| All other grades (100% $NH_4NO_3$) | 160,860 | 184,822 |
| Ammonium sulphate, synthetic (technical) | 569,652 | 236,188 |
| Calcium carbide (commercial) | 605,356 | 682,934 |
| Carbon, activated, decolorizing and water purification, lbs. | 67,115,000 | 66,031,000 |
| Carbon dioxide— | | |
| liquid and gas, lbs. | 254,160,000 | 244,084,000 |
| Solid (dry ice), lbs. | 307,581,000 | 758,818,000 |
| Chlorine gas | 1,765,128 | 1,621,031 |
| Chrome green (C.P.), lbs. | 10,257,000 | 12,720,000 |
| Chrome yellow and orange (C.P.), lbs. | 36,231,000 | 49,239,000 |
| Hydrochloric acid (100% HCl) | 484,250 | 443,651 |
| Hydrofluoric acid, anhydrous and technical (100% $H_2F_2$), lbs. | 55,673,000 | 67,736,000 |
| Hydrogen, Mil.cu.ft. | 29,510 | 27,840 |
| Methanol (natural) (100% $CH_3OH$), gal. | 2,030,000 | 2,380,000 |
| Molybdate chrome orange (C.P.), lb. | 5,291,000 | 5,800,000 |
| Nitric acid (100% $HNO_3$) | 1,129,521 | 1,132,819 |
| Oxygen, Mil.cu.ft. | 14,464 | 15,948 |
| Phosphoric acid— | | |
| Total (50% $H_3PO_4$) | 1,329,228 | 1,215,937 |
| From phosphorus (50% $H_3PO_4$) | 730,751 | 606,251 |
| From phosphate rock (50% $H_3PO_4$) | 598,477 | 609,686 |
| Silver nitrate (100% $AgNO_3$), ozs. | 41,025,000 | 50,894,000 |
| Soda ash (commercial sodium carbonate— | | |
| Ammonia soda process— | | |
| Total wet and dry (98-100 $Na_2CO_3$)[1] | 3,916,016 | 4,575,458 |
| Finished light (98-100% $Na_2Co_3$)[2] | 2,051,405 | 2,317,575 |
| Finished dense (98-100% $Na_2CO_3$) | 1,324,924 | 1,534,730 |
| Natural ($Na_2CO_3$ equivalent)[3] | 203,264 | 297,474 |
| Sodium bicarbonate (refined) (100% $NaHCO_3$) | 153,737 | 160,915 |
| Sodium bichromate and chromate | 75,656 | 95,975 |
| Sodium hydroxide (caustic soda)[4]— | | |
| Electrolytic process— | | |
| Liquid (100% NaOH) | 1,656,492 | 1,587,831 |
| Solid (100% NaOH) | 257,418 | 303,971 |
| Lime—soda process— | | |
| Liquid (100% NaOH) | 566,230 | 769,697 |
| Solid (100% NaOH) | 169,096 | 256,951 |
| Sodium phosphate— | | |
| Monobasic (100% $NaH_2PO_4$) | 12,722 | 12,344 |
| Dibasic (100% $Na_2HPO_4$) | 129,041 | 86,455 |
| Tribasic (100% $Na_3PO_4$) | 70,597 | 80,193 |
| Meta (100% $NaPO_3$) | 27,323 | 35,045 |
| Tetra (100% $Na_4P_2O_7$) | 78,376 | 66,369 |
| Sodium silicate (soluble silicate glass, liquid and solid) (anhydrous) | 446,202 | 483,858 |
| Sodium sulphate— | | |
| Anhydrous (refined) (100% $Na_2SO_4$) | 136,276 | 169,018 |
| Glauber's salt (100% $Na_2SO_4.10H_2O$)[5] | 152,878 | 183,630 |
| Salt cake (crude) (commercial)[5] | 537,337 | 656,438 |
| Sulphuric acid— | | |
| Gross (100% $H_2SO_4$)[5,6] | 10,884,761 | 10,950,097 |
| Chamber process (100% $H_2SO_4$) | 2,668,626 | 2,951,340 |
| Contact process (gross) (100% $H_2SO_4$)[5] | 8,216,135 | 7,988,757 |
| Contact process (new) (100% $H_2SO_4$)[5] | 7,511,228 | 7,269,744 |
| Fortified spent acid (100% $H_2SO_4$) | 704,907 | 719,013 |
| Zinc yellow (zinc chromate) (C.P.) | 5,252 | 4,752 |

[1] Includes quantities used in manufacturing caustic soda and sodium bicarbonate and quantities processed to finished light and finished dense soda ash.
[2] Excludes quantities converted to finished dense soda ash.
[3] Collected in cooperation with the Bureau of Mines.
[4] Liquid production figures include quantities evaporated to solid caustic.
[5] Includes sulphuric acid of oleum grade.
[6] Includes estimates of by-product operations of five smelters formerly reporting to the Bureau of Mines.

## Austria to Purchase U.S. Chemicals, Metals

The Economic Cooperation Administration's office of small business has reported the proposed purchase by Austria of quantities of chemicals, chemical prodpcts and nonferrous ores and concentrates from American suppliers. Purchases will be made under the following authorizations:—

**Small Business Circular No. 39**

No. 31-390-00-6225. Binding offer, valid until March 25, to be submitted not later than March 11 at 12 noon (Vienna time).

No. 31-650-00-6217. Binding offer, valid until March 30, to be submitted not later than March 13 at 12 noon, (Vienna time).

**Small Business Circular No. 49**

No. 31-370-00-6223. Bidding deadline March 9 at noon (Vienna time), validity of offer, March 23.

No. 31-390-00-6225. Bidding deadline March 11 at noon (Vienna time), validity of offer, March 25.

No. 31-640-00-6215. Bidding deadline March 10 at noon (Vienna time), validity of offer, March 25.

No. 31-640-03-6216 (Canada). Bidding deadline March 10 at noon (Vienna time), validity of offer, March 24.

**Small Business Circular No. 51**

No. 31-2103-00-3219. Binding offer, valid until March 31, to be submitted not later than March 15 at noon (Vienna time). Final contracting date not later than the end of May, 1950. Final delivery date not later than the end of July, 1950.

No. 31-2103-00/94-3219. Binding offer, valid until March 31, to be submitted not later than March 15 at noon (Vienna time). Final contracting date not later than the end of May, 1950. Final delivery date not later than the end of July, 1950.

No. 31-2106-00/94-3224. Binding offer, valid until March 31, to be submitted not later than March 15 at noon (Vienna time). Final contracting date not later than the

—*Continued on page 39*

## Petroleum Products Freight Rate Cuts Become Effective

The Interstate Commerce Commission last week refused to suspend a reduction in freight rates on transportation of petroleum and petroleum products in the midwest and southwest and the reduction was allowed to go into effect on March 1. The reduction had been proposed by the railroads and opposed by tank truck operators.

The ICC previously had granted the railroads an increase of from 8 to 10 percent in freight charges on these products moving between midcontinent and southwest territories and western trunk line and Illinois Freight Association territories. The latest order of the commission wipes out this increase.

The commission also allowed cuts in railroad rates last week on lubricating oils, greases and certain other products in packages moving between eastern and southern territories. The new rates will be the same as those applying to gasoline, kerosene and several other oil products, of from 6 cents to 10 cents per pound.

## Ammonia Contract to Heyden

Heyden Chemical Corporation, New York, was awarded a contract for supplying 91,600 tons of a..hydrous ammonia for the army's overseas fertilizer program by the Department of Defense last week. The total cost of the contract was stated by the department to be $5,422,308. The contract was let by Joliet Arsenal, Joliet, Ill.

## Antibiotic Solutions Clarity Tests Dropped by FDA

All references to tests for clarify of solutions have been dropped from the regulations for certification of penicillin, streptomycin, dihydrostreptomycin, aureomycin, and baci tracin by the Food and Drug Administration. The action was effective with publication in the Federal Register of February 28.

Officials explained that elimination of the clarity tests was in line with the recent decision of the USP revision committee to drop the chapter on clarity from the next issue of the Pharmacopeia. The requirement that solutions must be "substantially free" of foreign matter has proven an unsatisfactory standard and one that is unenforceable.

# Justice Department Urges Repeal Of Export Trade Act as 'Useless'

The Department of Justice told the Celler monopoly investigating committee of the house last week that the Webb-Pomerene export trade law is completely out of step with the philosophy of competition and free enterprise that has guided the United States for sixty years and should be repealed by congress.

John C. Stedman of the antitrust division of the department, in testimony before the committee on a bill that would broaden the law to permit establishment of import as well as export associations, said that the thirty-year history of operations of the act falls far short of substantiating claims of the law's usefulness.

"In the first place," Mr. Stedman said, "on the basis of such factual data as have been collected, the thirty-year history of many of these associations has been one of frequent and often flagrant misuse of the privileges granted to them. Secondly, our business concerns, by and large, find themselves much better equipped to hold their own in foreign trade than they were in 1917, when the act was passed. In the face of the recognized vigor of American competition, it is somewhat unrealistic to talk in terms of a statute that will enable businessmen to survive against their dangerous foreign competitors."

Earlier, the committee heard Allen C. Phelps, chief of the division of export trade of the Federal Trade Commission, strongly oppose a bill pending before the committee to provide for import associations under the Webb-Pomerene law and a general revision of the act to provide a closer check on the operations of associations. The bill was drawn up by Dr. Myron W. Watkins, consulting economist.

**Departure from Antitrust Policy**

Mr. Phelps described the setting up of import associations as an "extreme departure from the current antitrust policy of the United States." He recalled that in 1928 congress considered amending the law to provide for import associations by reason of the existence of the "Stevenson plan" operating in England for the control of production and sale of crude rubber abroad. But the Stevenson plan collapsed and the bill was defeated in the house.

"Unless factors appear which will materially alter present considerations," Mr. Phelps said, "the commission is unwilling to endorse an expansion of the Webb-Pomerene law to include import associations, since it would constitute a departure from the fundamental policy of the antitrust laws of protecting American consumers and might result in substantial injury to the American public interest."

Mr. Stedman joined Mr. Phelps in condemning the idea of import associations,

—Continued on page 74

## Pfizer Names Finlay Asst. Biochemical Research Head

Chas. Pfizer & Co., Brooklyn, N. Y., has appointed A. C. Finlay assistant director of the biochemical research and production division. Associated with the Pfizer organization since 1929, Mr. Finlay was previously in charge of the culture development laboratories, and will now

A. C. Finlay

be responsible for the coordination of activities in connection with new product development by biochemical means, as well as implementing basic research being done on the production of known chemical products by new methods.

In addition, Dr. J. F. Snell, Dr. Richard N. Shoemaker, Dr. Arthur R. English and Samuel C. Beesch have been added to the staff of the division. Dr. Snell heads the recently formed atomic isotopes laboratories, where research work in biochemistry is being initiated by the utilization of radioactive isotopes in the investigation of fermentation processes.

Drs. Shoemaker and English will work on fundamental research in the field of fermentation chemistry, and Mr. Beesch will work on the development of biochemical processes for the production of fermentation products.

## ECA Announces Additional Procurement Authorizations

Among the new procurement authorizations issued to Marshall plan countries by the Economic Cooperation Administration during the period February 24 through March 2, were the following:

To Austria—$250,000 for industrial chemicals other than alcohol from the United States.

To Belgium-Luxemburg—$1,200,000 for chemicals and $4,000 for naval stores from the United States.

To Denmark—$2,475,000 for oilcake and meal and $25,000 for nonmetallic minerals from the United States; $203,000 for copper from Latin America.

To France—$165,000 for chemicals from the United States and $240,000 for petroleum from the Middle East.

To Germany — $21,000 for nickel and $99,000 for miscellaneous nonferrous metals from the United States; $25,000 for tin products from Latin America, and $135,000 for petroleum from the Middle East.

To Ireland—$180,000 for oilcake and meal from the United States.

To Italy—$1,000,000 for chemicals from the United States.

To Netherlands—$24,000 for industrial chemicals other than alcohol, $185,000 for aluminum, and $1,868,000 for skim milk from the United States.

To Norway—$200,000 for nonmetallic minerals from the United States.

To United Kingdom—$140,000 for butyl alcohol and $500,000 for copper from the United States; $800,000 for nonmetallic minerals from Canada.

## Duval Changes Firm Name

The Duval Texas Sulphur Company has changed its corporate name to the Duval Sulphur & Potash Company. The headquarters of the company remains at 1120 Niels Esperson building, Houston 2, Tex.

### *Heads Chemetals Corp.*

William M. Hayden has resigned as manager of industrial research of the Anaconda Copper Mining Company to become president of the Chemetals Corporation. The new company, which will process a number of metals and operate a new method for processing copper, has temporary headquarters at 522 Fifth avenue, and will establish permanent offices at 488 Madison avenue, New York, after April 1. Mr. Hayden had been with Anaconda and its smelting and fabricating subsidiaries since 1927.

## C. Withington Company Established in New York

Chandler Withington, former technical director and manager of technical sales for D. H. Litter Company, has formed the C. Withington Company to operate as sales representative in the field of raw materials for surface coatings. At present the new company will exclusively represent American Alkyd Industries and the Troy Chemical Company in the New York area, and will have limited representation for Carbon Dispersions, Inc., and the Brown Oil & Chemical Company, for both sales and technical service.

The new company has offices at 29-28 Forty-first avenue, Long Island City, New York, and a sales service laboratory at another Long Island City location. Its telephone number is Ravenswood 9-1093.

## Southern Paint Group Sets Meeting Program

Plans for the Spring meeting of the Southern Paint and Varnish Production Club, to be held at the Peabody hotel, Memphis, Tenn., on March 8 to 10, were formulated at a recent joint meeting of the organization's advisory and executive committees.

William A. Smith, chairman of the program committee, revealed that several speakers from the raw material paint and varnish industry will address the meeting, and that, in addition, a feature will be a round table symposium consisting of national and international authorities on house paints. The discussion is expected to bring to light the latest thoughts on pigmentations, vehicles, vehicle to binder ratio, application, and surface preparations for the best weathering results.

The symposium will be conducted in conjunction with an extensive program being conducted by the technical committee under the direction of Raymond C. Adams, in cooperation with the University of Georgia under the direction of Dr. Paul Weber, on further studies to improve the durability of house paints when applied to southern hard pine.

**Hughes to Conduct Forum**

The open forum, a perennial feature of the Spring meeting, will be conducted by John Hughes, assisted by David Bernhardt, jr. and Raymond C. Adams. Questions of vital interest to the paint and varnish production men will be discussed, and questions for discussion have been invited from those who plan to attend.

A special report will be made on the results to date of the new paint course that has been conducted at the University of Alabama during the past year.

In addition to the report on the program, David Bernhardt jr., chairman of the raw material and machinery exhibit,

—Continued on page 66

## Mining Operations Subsidy Proposal Blocked in House

The house rules committee last week reversed itself and decided against granting a special rule for consideration on the house floor of S. 2105, providing for subsidizing marginal mining operations. The bill has passed the senate and was reported to the house last session by the public lands committee.

In view of the action of the rules committee, it is uncertain now when the measure can be called up for passage on the floor.

## Reichhold Signs Agreement For Resin Output in Africa

Henry H. Reichhold, chairman of the board of Reichhold Chemicals, Inc., and Harry Welsh, chairman and managing director of Poly-Resin Products, Ltd., South Africa, have reached an agreement whereby Poly-Resin Products will produce RCI resins in South Africa. The Poly-Resin organization will be affiliated with the chain of Reichhold manufacturing plants and will use the American company's formulas and manufacturing techniques.

## Trimethylorthoformate Offered by Kay-Fries

Kay-Fries Chemicals, Inc., has commenced production of limited quantities of trimethylorthoformate. According to the company, the new trimethyl ester offers unexploited possibilities in organic synthesis and may eventually prove more economical than its homolog, triethylorthoformate, which the company has manufactured in carload quantities for a number of years.

## Cortisone Price Reduced

Merck & Co., Rahway, N. J., has announced a reduction in the price of cortisone from $150 to $135 per gram, effective March 1, for the limited supplies available for clinical investigation at medical teaching centers. The reduction was made possible by increased yields obtained in the manufacturing process.

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Oil, Paint and Drug Reporter, Vol. 157, No. 10, March 6, 1950. Published every Monday by Schnell Publishing Company, Inc., 30 Church Street, New York 7, N. Y., U. S. A. Subscription prices—United States and possessions, Cuba, Central America and South America, $5 a year; Canada and Newfoundland, $7; other countries, $10. Entered as second-class matter, January 15, 1884, at the New York Post Office under the act of March 3, 1879. Copyright, 1950, by Schnell Publishing Company, Inc.

## *Who Has It?*

Inquiries in the OPD editorial office seek sources from which the materials listed below can be obtained. Information will be gratefully received here:—

Ergostanyl acetate.
Ethylalpha-oxal propionate.
Hexadecyl mercaptan-1.
Octadecyl-mercaptan-1.
Pyridon-n-acetic acid.
Trihexyl phenidyl 3 - (1-piperidyl)-phenyl-1-cyclohexyl-1-propanol hydrochloride.

## CCDA Sets Program For Mar. 22 Meeting

The Commercial Chemical Development Association has completed the program for its meeting to be held at the Roosevelt hotel, New York, on March 22. The program is as follows:

**Morning Session**

The morning session, base on the theme "Chemical Development—At Home and Abroad," will be presided over by Joseph J. Schaefer. The speakers will be R. P. Soule, director of the business development division, Irving Trust Company, "The Influence of the Cost and Availability of Capital"; H. P. Broom, manager of the New York office of E. B. Badger & Sons Company, "The Influence of Construction Costs," and D. B. Keyes, vice-president of Heyden Chemical Corporation, "The Influence of Government Research."

At the luncheon session, Dr. Lauren B. Hitchcock, president of National Dairy Research Laboratories, Inc., will introduce E. P. Stevenson, president of Arthur D. Little, Inc., who will discuss the "Importance of the Chemical Industry to National Defense."

**Afternoon Session**

In the afternoon R. L. Taylor, editor of "Chemical Industries," will be moderator of a session on "American Participation in International Chemical Development." The speakers will be Charles C. Concannon, chief of the chemical division, bureau of foreign and domestic commerce, Department of Commerce, "Status of Chemical Production Abroad"; A. F. G. Cadenhead, director of chemical development, Shawinigan Chemicals, Ltd., and P. W. Blaylock, of the same company, "Determination of Foreign Market Potentials"; Willy Feuerlein, treasury division, E. I. du Pont de Nemours & Co., "The Foreign Currency Situation." and J. L. Gillis, general manager of the Merrimac Division, Monsanto Chemicals Company, "Where and When to Build a Plant Abroad."

At the dinner session, C. D. Goodale, president of the association, will present the first annual CCDA award scroll to Harry B. McClure, divisional vice-president of the Carbide & Carbon Chemicals Division, Union Carbide & Carbon Corporation. Mr. McClure's award address will be entitled "Recent Case Studies in Chemical Development."

## Int. Minerals to Rebuild Arkansas Fertilizer Plant

Maurice H. Lockwood, vice-president in charge of the plant food division of the International Minerals & Chemical Corporation, Chicago, has announced that reconstruction of the company's fertilizer plant at Texarkana, Ark., destroyed by fire on February 23, will be undertaken immediately. Although the cost of the total damage is still undetermined, Mr. Lockwood said that the fire consumed the main building but spared the superphosphate plant, the ammonia storage tanks, and the warehouse and office.

## *Foreign Sales Leads*

Anyone interested in supplying the following inquiries with goods or information can get the full address of the inquirer by communicating — not by telephone, please—with OPD office:—

Bitumen, Brussels, Belgium (FG-3).
Bonemeal, Osaka, Japan (FG-4).
Casein, Osaka, Japan (FG-4).
Cottonseed, Osaka, Japan (FG-4).
Fertilizer, Osaka, Japan (FG-4).
Medicinal specialties, Buenos Aires, Argentina (FG-5, agency).
Molasses, Osaka, Japan (FG-4).
Oil distilling plant, Bombay, India (FG-1).
Oils, heavy and crude, Osaka, Japan (FG-4).
Pharmaceutical products, Teheran, Iran (FG-2, catalogs, prices, etc.).
Quebracho extract, Osaka, Japan (FG-4).
Resins, Brussels, Belgium (FG-3).
Salt, Osaka, Japan (FG-4).
Soya beans, Osaka, Japan (FG-4).

## *Foreign Market Lists*

Lists of foreign outlets for chemicals and related materials and consumers goods, recently compiled by the Commercial Intelligence division of the United States Department of Commerce, include the following, which are available from the division at $1 a list for any one country:—

Chemical importers, dealers—Paraguay.
Feedstuff importers, dealers, manufacturers—Venezuela.
Oils (animal, fish, vegetable) importers and dealers—Bermuda.
Paint and varnish importers, dealers—Paraguay.
Photographic supply dealers, photographers—Colombia.

# *Antibiotics Industry Development And Outlook for Future Growth*

**By John E. McKeen**

**President, Chas. Pfizer & Co., Brooklyn, N. Y.**

*Excerpt from a speech delivered at the third annual convention of the National Federation of Financial Analysts Societies, held in New York on March 1*

Neither penicillin nor streptomycin furnish any real indication concerning the future of the antibiotic market. In the case of penicillin, certain manufacturers, to offset falling profits, have introduced a number of specialty forms and dosages; the larger pharmaceutical houses, with extensive distribution setups enjoying some limited success in such ventures. However, this was at best a temporary alternative.

A more permanent and realistic solution lies in the development of completely new and exclusive antibiotic specialties. This is an exceedingly costly and rigorous alternative; nonetheless, it is the avenue of approach being most intensively explored by several of the leading antibiotic houses today.

**Importance of Research**

While the preceding observations paint the darker side of the antibiotic picture, viewed in their true perspective many of these difficulties should be considered as the typical growth pains of a new industry. However, it is not too early to comment on one very salutary development which I believe is emerging slowly out of the current antibiotic situation. This is the growing realization of the vital importance of research and operating know-how in the company structure. In this connection, Dr. Fishbein, former editor of the *Journal of the American Medical Association*, recently stated:—

"Twenty-five years ago the drug industry and the medical fraternity felt that much was being accomplished if there was one new major discovery in drug research in twenty-five years. Fifteen years ago, the pace of such discoveries had stepped up to about one new major research discovery in a decade. Today, we have come to expect about one discovery in every six months. The pace will increase even faster in the future. It is my opinion that a few years hence, with the wider spread of health care and the increased productivity in new research medicines, the drug industry may easily be the 'Number 1 Industry in Dollars' in the United States."

Dr. Fishbein's observation is best evidenced by reference to the table below covering the development of major product types in the ethical drug industry over the last wenty years.

**Sharp Price Reductions**

As regards research and technological advances in the antibiotic industry, I believe that the previously cited reduction in the bulk price of penicillin from $20 the 100,000 units in 1943 to 4½ cents in 1949 and the cutback in bulk steptomycin prices from $25 to $30 in 1945 to 48 cents in 1949 is probably the best indication of the progress made by the industry. In addition, the unique experience gained during the intensive development of existing products unquestionably will be of major importance in the screening programs to produce still other antibiotics yet undiscovered.

In the above connection, where the development of penicillin, from the original observations of Fleming to commercial production took fifteen years, new antibiotics of promise are now being routinely processed utilizing "production line techniques" in a matter of months. Thus the antibiotic manufacturers are unusually well equipped to keep abreast and probably even ahead of technological advances made by other segments of the pharmaceutical industry.

**No Limit to Opporunities**

There is an impression among individuals not too well-acquainted with the antibiotic industry that with all the recent developments in the field of antibiotics the opportunities for new products are severely limited. This misconception should be corrected. While it would be unwise to minimize the recent progress made in the treatment of infectious diseases, available data indicate clearly that there remain ample challenges to this new industry for at leasts several decades to come.

**The Ethical Drug Industry**

| | 1929 | 1935 | 1939 | 1942 | 1947 | 1949 |
|---|---|---|---|---|---|---|
| Acetysalicylic acid | ..... | ..... | $5.000.000 | $6.000.000 | $12.000.000 | $15.000.000 |
| Antibiotics | ..... | ..... | ..... | 1.000.000 | 82.000.000 | 160.000.000 |
| Antihistamines | ..... | ..... | ..... | ..... | 2.000.000 | 35.000.000 |
| Arsenicals and bismuth preparations | $3.000.000 | $3.000.000 | 3.000.000 | 5.000.000 | 4.000.000 | 2.000.000 |
| Barbiturates | 8.000.000 | 6.000.000 | 9.000.000 | 18.000.000 | 26.000.000 | 30.000.000 |
| Biologicals | 7.000.000 | 8.000.000 | 9.000.000 | 20.000.000 | 23.000.000 | 29.000.000 |
| Botanicals | 15.000.000 | 13.000.000 | 16.000.000 | 20.000.000 | 40.000.000 | 50.000.000 |
| Endocrines | ..... | 11.000.000 | 17.000.000 | 30.000.000 | 62.000.000 | 70.000.000 |
| Sulphonamides | ..... | 5.000.000 | 15.000.000 | 28.000.000 | 28.000.000 | 28.000.000 |
| Vitamins | ..... | 14.000.000 | 23.000.000 | 50.000.000 | 133.000.000 | 150.000.000 |
| All other | 137.000.000 | 78.000.000 | 92.000.000 | 100.000.000 | 133.000.000 | 145.000.000 |
| TOTAL | $170.000.000 | $133.000.000 | $179.000.000 | $265.000.000 | $545.000.000 | $714.000.000 |

# *Washington Talks It Over*

**By Ralph L. Cherry**

Official Washington is thinking more and more of the day in 1952 when the European recovery program will come to an end, and the direct pump-priming operations of ECA will cease. The timetable calls for Europe to move under its own momentum when that day arrives, but it is not working out that way. American aid will continue to be needed. How to provide it at the least cost to the American taxpayer is the plan being sought.

Most of the attention seems to be directed at the so-called "point four" plan of the President as one means of providing this aid. It was proposed originally a year ago by Mr. Truman as a plan whereby certain guaranties or incentives would be given to American investings in backward or undeveloped areas. It is now being thought of in a broader sense—as a means of getting or keeping industrial activity going in the developed areas.

A good start on legislation carrying out such a program already has been made in the house foreign affairs committee where the Republicans and Democrats are near agreement on a bill soon to be reported. The bill differs greatly from the original idea of government guaranty of industry profits from investments in undeveloped areas, and proceeds instead on the theory of working through the UN organization to bring about multilateral technical cooperation program under which the United States will supply the technical assistance and know-how to the countries desiring it.

Through these technical assistance programs, the federal government will pave the way for private investment in new industries abroad. And through the agreements made through UN investors would be assured that their properties will not be confiscated without payment and that they will be given reasonable opportunity to remit their earnings and profits.

**Turpentine Use Shrinks**

Turpentine producers are waging a losing battle in the competitive fight for markets. During the last fiscal year, industrial consumption of turpentine of all kinds dropped about 26 percent below the previous year, and the Department of Agriculture says that it was owing almost entirely to the substitution of competitive synthetics in the manufacture of chemicals and pharmaceuticals.

The department is making a real effort to soften the impact of this trend away from the "natural" product by endeavoring to find new uses and markets for, and new chemicals from, turpentine. One hope lies with the synthetic rubber industry. Tests are being made now on the use of various terpene peroxides as catalysts in the production of "cold rubber," and some have been found to be quite satisfactory. The peroxide used most extensively at the present time is obtained from petroleum.

But the finding of new markets is hampered by the lack of fundamental knowl-

—*Continued on page 32*

## O'Mahoney Freight Bil Approved by Conferees

Senate and house conferees on the O'Mahoney freight absorption bill (S. 1008) reached a new agreement on their differences in the legislation last week and will make another try at getting congressional approval of their report so that the bill can go to the White House for the President's signature. It is expected to come up for final action after March 13.

The bill was sent back to conference earlier in the week by a 240-144 vote in the house, in response to a senate request for further study of the bill in view of certain objections that had been raised to one of its provisions by the Department of Justice. The senate asked that it go back to conference last January 20, but it was only last week that the house got around to acting on the request.

The provision of the bill criticized by the Department of Justice had to do with the definition of the term "the effect may be" as it is used in connection with acts affecting competition. The department did not like the definition that the term mean "reliable, probative and substantial evidence" adopted by the conference committee previously, because it was feared that this would impose a burden that would go beyond the present requirements of the Clayton and Robinson-Patman acts.

**Definition Dispute Settled**

The language preferred by the department was the language in the bill as it previously had passed the house. This was that the term "the effect may be" shall mean that there is "reasonable probability of the specified effect." The action of the conferees last week was to accept the department's suggestion and adopt this language.

This definition of the term is considered to be more liberal than that contained in the previous conference agreement and will give the government more freedom in presenting evidence in court of the effects of acts in commerce on restraining competition. It more nearly follows the Ruling of the Supreme Court in the Morton Salt case.

## Belgian Trade Information Available from U.S. Agent

Charles J. Little, commercial attache at the United States Embassy, Brussels, Belgium, will be available for trade conferences with New York businessmen March 6, 7 and 8.

Mr. Little, who has been stationed in Brussels the past two years, will discuss problems involved in trading with Belgium. Businessmen who wish to make appointments for interviews at the Department of Commerce regional office, 42 Broadway, shall call DIgby 4-8000, extension 34.

## Monsanto Gets Purchase Option on Phosphate Land

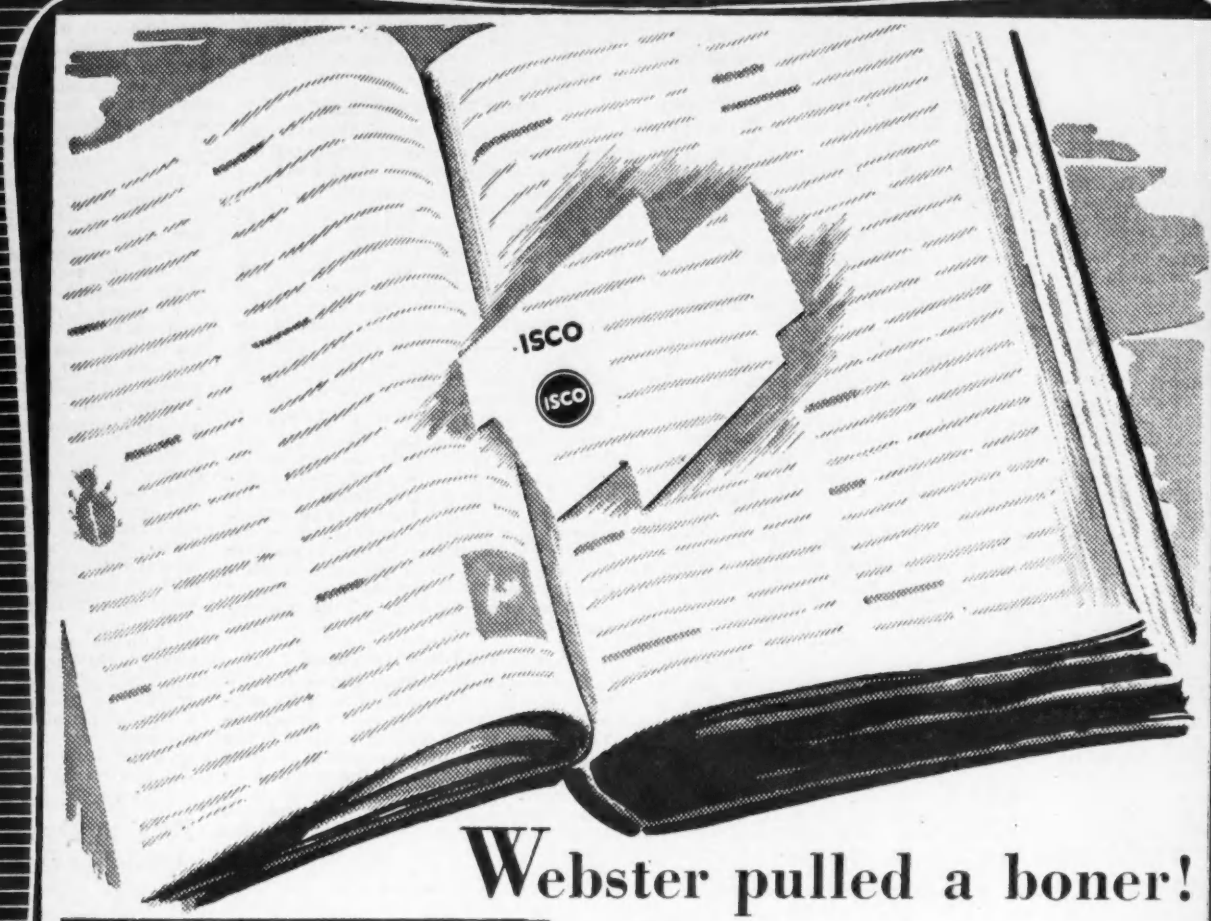
Monsanto Chemical Company, St. Louis, Mo., has obtained an option to purchase part of the phosphate deposits of the Humphreys Phosphate Company near Vernal, Utah. Adjoining ranch property has also been covered by option, and the phosphate division of Monsanto Chemical Company plans to prospect the deposits in exploratory work which may extend for several years, according to John L. Christian, general manager of the division.

## Bristol Appoints Johnson Chemical Sales Div. Head

Bristol Laboratories, Inc., Syracuse, N. Y., has appointed Victor T. Johnson sales manager of its chemical sales division. Mr. Johnson, who was formerly assistant manager of the domestic sales division, will make the company's experiences and resources in research, development and production of antibiotics available to ethical pharmaceutical manufacturers and distributors through the reorganized bulk and chemical sales division.

## Nat. Lead Buys Schorn

The National Lead Company, New York, has purchased the assets of the Schorn Paint Manufacturing Company. Included in the sale are a fully-equipped and operating paint factory at Seattle, Wash., and interests in several retail paint stores. The properties will be operated as a part of the National Lead Company's Pacific Coast branch.



# Webster pulled a boner!

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## Association Meetings

Affiliated Drug Stores, New Yorker hotel, New York, March 19-21.

American Association of Candy Technologists, annual production conference, Bethlehem, Pa., April 27.

American Chemical Society, 117th national meeting, Shamrock hotel, Houston, Tex., March 26-30; Bellevue-Stratford hotel, Philadelphia, April 9-13; Statler hotel, Detroit, April 16-20.

American Drug Manufacturers Association, annual meeting, Boca Raton Club, Boca Raton, Fla., March 27-30.

American Management Association, national packaging exposition, Navy Pier, Chicago, April 24-27.

American Oil Chemists Society, Atlanta Biltmore hotel, Atlanta, Ga., May 1-3.

American Council of Commercial Laboratories, Cleveland hotel, Cleveland, June 22-23.

American Pharmaceutical Association, Traymore hotel, Atlantic City, April 30-May 5.

American Pharmaceutical Manufacturers Association, annual meeting, Broadmoor hotel, Colorado Springs, Colo., May 29-31.

American Plant Food Council, Homestead hotel, Hot Springs, Va., June 29-July 2.

American Spice Trade Association, Shawnee Inn, Shawnee-on-Delaware, Pa., May 21-24.

American Water Works Association, Convention Hall, Philadelphia, May 21-26.

American Zinc Institute, Statler hotel, St. Louis, April 11-12.

Associated Chain Drug Stores, New Yorker hotel, New York, September 24-27.

Association of Consulting Chemists and Chemical Engineers, Shelburne hotel, New York, April 25.

Canadian Gas Association, Manoir Richelieu hotel, Murray Bay, Quebec, June 19-24.

Central Atlantic States Association of Food and Drug Officials, Chalfonte hotel, Atlantic City, N. J., May 24-26.

Chemical Market Research Association, Statler hotel, Boston, March 30.

Chemical Specialties Manufacturers Association (formerly National Association of Insecticide and Disinfectant Manufacturers), Drake hotel, Chicago, June 12-13.

Commercial Chemical Development Association, Roosevelt hotel, New York, March 22.

Drug, Chemical and Allied Trades Section, New York Board of Trade, annual dinner, Waldorf-Astoria hotel, New York, March 9; annual meeting, Shawnee Inn, Shawnee-on-Delaware, Pa., September 21-23.

Federal Wholesale Druggists Association, Statler hotel, New York, March 13-15.

Federation of Paint and Varnish Production Clubs, Congress hotel, Chicago, November 9-11.

Flavoring Extract Manufacturers Association, Traymore hotel, Atlantic City, N. J., May 7-10.

Independent Petroleum Association of America, Biltmore hotel, Los Angeles, May 7-9.

Institute of Food Technologists, decennial conference, Edgewater Beach hotel, Chicago, May 21-25.

International Microchemical Congress, Graz, Austria, July 2-6.

Liquefied Petroleum Gas Association, Palmer House, Chicago, May 7-13.

Manufacturing Chemists Association, joint outing with Synthetic Organic Chemical Manufacturers Association, Monmouth hotel, Spring Lake, N. J., June 19-21.

Metal Powder Show, Book-Cadillac hotel, Detroit, Mich., April 25-26.

National Association of Chain Drug Stores, Hollywood Beach hotel, Hollywood, Fla., April 11-14.

National Association of Corrosion Engineers, Jefferson hotel, St. Louis, April 4-7.

National Association of Purchasing Agents, Cleveland, June 12-14.

National Association of Retail Druggists, Long Beach, Calif., October 15-21.

National Butane-Propane Association, Hollenden hotel, Cleveland, September 18-19.

National Confectioners Association, Waldorf-Astoria hotel, New York, June 4-9.

National Cottonseed Products Association, Shamrock hotel, Houston, Tex., May 15-17.

National Farm Chemurgic Council, Statler hotel, Washington, March 29-31.

National Fertilizer Association, Greenbrier hotel, White Sulphur Springs, W. Va., June 12-15.

National Paint, Varnish and Lacquer Association, Fairmont hotel, San Francisco, November 15-18

National Petroleum Association, Cleveland hotel, Cleveland, April 12-14.

National Plastics Show, Navy Pier, Chicago, March 28-31

National Safety Congress, Chicago, October 16-20.

National Sanitary Supply Association, Stevens hotel, Chicago, May 7-10.

National Wholesale Druggists Association, Waldorf-Astoria hotel, New York, September 16-21.

Natural Gasoline Association of America, Texas hotel, Fort Worth, Tex., April 24-26.

Oil Trades Association of New York, Waldorf-Astoria hotel, New York, March 14.

Proprietary Association, Greenbrier hotel, White Sulphur Springs, W. Va., May 25-27.

Society of Cosmetic Chemists, Savoy Plaza hotel, New York, May 19.

Southern Paint and Varnish Production Club, Peabody hotel, Memphis, Tenn., March 8-10.

Synthetic Organic Chemical Manufacturers Association, Commodore hotel, New York, March 14; joint outing with Manufacturing Chemists Association, Monmouth hotel, Spring Lake, N. J., June 19-21; annual meeting, Commodore hotel, New York, December 13.

Tanners Council of America, Spring leather show, Waldorf-Astoria hotel, New York, March 7-8.

Toilet Goods Association, annual meeting, Waldorf-Astoria hotel, New York, May 16-18.

United States Pharmacopoeia convention, Statler hotel, Washington, May 9-10.

## Chemurgic Conference Program Takes Shape

The National Farm Chemurgic Council has issued a preliminary program for its fifteenth annual chemurgic conference, to be held at the Statler hotel, Washington, on March 29 to 31. The program is as follows:—

**March 29**

The conference will be opened with a luncheon, presided over by Wheeler McMillen, president of the council. The afternoon session will be presided over by Howard Huston, assistant to the president of the American Cyanamid Company. There will be discussions of "Nature's World Currencies," by Edward W. Russell, former managing editor of the "London Morning Post," and Bernard Kilgore, president of the "Wall Street Journal." In addition, Dr. G. E. Hilbert, chief of the bureau of agricultural and industrial chemistry, USDA, will speak on "Advances in Crop Use Research."

Presiding at the evening session will be Irving T. Gumb, executive vice-president of the New Jersey State Chamber of Commerce. There will be talks on "Chemurgy and Forest Products," by Dr. K. Starr Chester, Battelle Memorial Institute; "Chemurgic Opportunities Peculiar to the Southwest," by Dr. C. L. Shrewsbury, Southwest Research Institute, and "Chemurgy at the Midwest Research Institute," by Dr. George E. Ziegler, director of the institute.

**March 30**

At the morning session M. F. Taggart, O'Brien Corporation, will preside, and the speakers will be Dr. Philip J. Schaible, Distillers Feed Research Council, on "Chemurgic Utilization of Stillage"; Ollie E. Fink, executive secretary of Friends of the Land, on "Democracy is Dependent Upon Conservation," and Paul Mayfield, Hercules Powder Company, on "Reforestation and Land Reclamation Byproducts of the Chemical Industry."

Secretary of Agriculture Charles F. Brannan will speak at the afternoon session, which will be presided over by J. H. Burrell, Ralston Purina Company. Also scheduled to speak are Dr. Charles F. Woodward, Eastern Regional Research Laboratory, who will discuss "The Overall Report on Lactic Acid," and Dr. James F. Couch, of the same laboratory, who will speak on "Rutin and the Medical Application of the Glucoside."

Presiding at the evening session will be Victor H. Schoffelmayer, Southwest Research Institute, and there will be talks by John H. Karrh, Virginia-Carolina Chemical Company, on "Vicara—A New Fabric from Zein," and Dr. L. H. Sarett, Merck & Co., who will discuss "Possible Cortisone Elements from American Acres."

**March 31**

Eugene Poirot, the Poirot Farms, Golden City, Mo., will preside over the morning session. The speakers will be Kent Leavitt, National Association of Soil Conservation Districts, "Soil Conservation and Chemurgy"; Curt E. Eckert, Eckert Orchard Association, "Chemurgy on an Illinois Farm," and Ernest S. Koke, Koke Company, "Our Farm Is 100 Percent Chemurgic."

In the afternoon, W. D. Outman, Florida Department of Agriculture, will preside, and the following speakers will be heard:—L. R. B. Hervey, Rubberset Company, "Monofilaments as an Outlet for Surplus Protein"; Dr. Karl D. Butler, Avco Corporation, "Chemurgy and the Animal," and Dr. H. J. Prebluda, U. S. Industrial Chemicals, Inc., "New Trends in Animal Nutrition."

## USP Headquarters Dedication April 12

The Pharmacopeia of the United States will dedicate its new headquarters at 46 Park avenue, New York, on April 12. The dedication program will consist of presentation of the building by the board of trustees to the officers of the USP convention. Addresses will be made by Dr. Paul B. Dunbar, commissioner of food and drugs, and by Dr. William G. Workman, director of the National Institutes of Health.

## Lever Names Graustein Market Research Director

Lever Brothers Company, New York, has appointed Archibald R. Graustein jr. director of market research. Mr. Graustein originally joined the Lever Brothers organization in 1937, and has been director of market research of Thomas J. Lipton, Inc., since his release from active duty with the navy.

### *National Lead Director*

Joseph H. Reid, manager of the titanium division of the National Lead Company, New York, has been elected a director and member of the company's executive committee, to succeed Claude F. Garesche. Mr. Reid joined the company in 1927, and has been manager of the titanium division since last year. He is also a director of the Titanium Pigment Corporation.

## AIChE Studies Methods For Chlorine Production

A newly-developed process for the production of chlorine and a review of development work done to increase the efficiency of electrolytic cells for the manufacture of chlorine and caustic soda were discussed last week at the Houston, Tex., regional meeting of the American Institute of Chemical Engineers.

Charles P. Roberts of the Westvaco Chemical Division of Food Machinery & Chemical Corporation described the production of chlorine without the use of caustic soda. It would use waste or surplus hydrochloric acid gas as the raw material and would yield a high-purity chlorine gas as the product.

The process, in its most practical form, according to Mr. Roberts, consists of the electrolysis of cupric chloride to produce chlorine gas and cuprous chloride. The cuprous chloride produced is then oxidized by hydrochloric acid and oxygen to produce more cupric chloride, which is returned to the electrolysis step.

The process was described as being superior to other presently known methods for recovery of chlorine from hydrochloric acid in several respects, notably those of purity of product and economy of operation.

**Electrolytic Cells Efficiency**

Deane O. Hubbard, project engineer of Hooker Electrochemical Company, Niagara Falls, New York, reported on increasing the efficiency of electrolytic cells. He and his associates have found that it is more economical to use the Hooker "Type S" cells, at 8,000 to 10,000 amperes, in plants as small as five tons capacity per day, than to use smaller cells. Further-

—*Continued on page 38*

## Titanium Metals Corp. Names Lippert Manager

Thomas W. Lippert has been appointed general manager of the Titanium Metals Corporation of America, jointly owned by the National Lead Company and the Allegheny Ludlum Steel Corporation. Mr. Lippert was formerly manager of all publications for the American Institute of Mining and Metalurgical Engineers, including editor of the "Journal of Metals," and he had previously been editor of "Iron Age."

## ADMA-APMA Contact Committee Meeting Off

The usual spring meeting of the combined contact committee of the American Drug Manufacturers Association and the American Pharmaceutical Manufacturers Association has been cancelled this year because of the large number of other special meetings requiring attendance of the members, according to Frank O. Taylor, committee chairman.

Mr. Taylor declared that a careful survey of the various subjects for consideration by the committee indicated that none requires urgent consideration and some can be profitably postponed while subcommittees are accumulating additional data.

## ADMA Lists Speakers For March 27 Meeting

The American Drug Manufacturers Association has arranged a tentative program for its thirty-eighth annual meeting, to be held at the Boca Raton Club, Boca Raton, Fla., on March 27 to 30. The program is as follows:

**March 27**

In the morning the meeting will be formally opened and reports of the treasurer, legislative section, executive vice-president and secretary, and the president will be presented. There will be a ladies' buffet luncheon at 1 p.m, and the ADMA reception will start at 6:30 p.m.

At the dinner session, Harold E. Stassen, president of the University of Pennsylvania, will deliver an address entitled "Freedom and Progress."

**March 28**

In the morning there will be reports of the biological, medical and pharmaceutical contact sections. In addition, Dr. James H. Means, Jackson professor of clinical medicine at Harvard Medical School and chief of medical services at Massachusetts General hospital, Boston, will discuss "The Changing Picture of Medicine."

In the afternoon, the ADMA golf tournament will be held, and the prizes will be presented after the banquet on March 29. The president's cup will be awarded on the same basis as in 1949 and there will be a group of additional prizes for such achievements as the longest drive off the first tee, tournament low net score, and others.

**March 29**

The reports of the research and development and the production and engineering sections will be presented in the morning, followed by an address by Lt. Gen. Walter Bedell Smith, former ambassador to the Soviet Union.

In the afternoon, the annual tennis tournament will be held, based on mixed doubles. At the annual banquet in the evening, prizes for both the golf and tennis tournaments will be distributed.

**March 30**

At the morning session William H. P. Blandy, president of the Health Information Foundation, will speak on the "Purposes of the Health Information Foundation." In addition, Dr. Robert T. Stormont, secretary of the council on pharmacy and chemistry of the American Medical Association, and Dr. Austin Smith, editor of the "Journal of the American Medical Association," will deliver addresses.

## FWDA Sets Program For Mar. 13-15 Meeting

The Federal Wholesale Druggists Association has completed the program for its "Buyers Get-Together" to be held at the Statler hotel, New York, on March 13 to 15.

On March 13 there will be a meeting for wholesalers only, in the morning, and a luncheon session for manufacturers, wholesalers and buyers. The luncheon speaker will be Carlyle Emery, vice-president and director of Ruthrauff & Ryan, Inc., who will deliver an address entitled "The Game of Selling."

In the afternoon there will be a wholesalers meeting, to which manufacturers are invited. The speakers will be: Roy Wright, "This Week" magazine, "More Efficient Distribution in the Food Field"; Lyle Purcell, Batton, Barton, Durstine & Osborne, Inc., "If I Were a Druggist," and S. B. Jeffries, City College of New York, who will present and comment upon a motion picture entitled "American Drug Stores Business Training."

On March 14 there will be a managers meeting in the morning, a luncheon session for group managers and buyers, and another managers meeting in the afternoon. On March 15 there will be simultaneous buyers and managers meetings in the morning and luncheon session for group managers and buyers.

## Baker Castor Oil Names Smith Technical Div. Head

The Baker Castor Oil Company has appointed M. K. Smith director of its technical division. In this position Mr. Smith will be in charge of all technical activities of the company except engineering and agronomy. He has been associated with the company since 1941 and has held a variety of positions, the last of which was director of chemical development.

# ORGANIC PEROXIDES

## DIACYL PEROXIDES

LUCIDOL* BENZOYL PEROXIDE

ALPEROX* (Technical Lauroyl Peroxide)

p-CHLOROBENZOYL PEROXIDE

LUPERCO* COMPOUNDS LUPEROX* PASTES

ALSO AVAILABLE

ALDEHYDE PEROXIDES KETONE PEROXIDES

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SPECIAL ORGANIC PEROXIDES

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High Purity Mercuric Compounds

★ **Mercuric Iodide,** C. P. and U. S. P.

1. Starting point in making compounds with iodine fatty acids.
2. Starting point in making paint pigment with the aid of cuprous iodide.
3. Used as pigment in paints for indicating excess heat by change in color.

★ **Mercuric Nitrate,** C. P.

1. Used in nitration of aromatic organic compounds.
2. Process material in felt manufacture.
3. Ingredient of mercury fulminates.

★ **Mercuric Oxide,** red, C. P.

★ **Mercuric Oxide,** yellow, C. P. and U. S. P.

1. Catalyst in making acetone from acetylene.
2. Starting point in making mercuric salts, mercury pharmaceuticals, and mercury parasiticides.
3. Oxidizing agent in making hypochlorous anhydride, diiodosalicylic acid, cyanamide from sulfoures, and amino and acetylene compounds by sulfonation, reduction, and nitration.
4. Desulfurizing agent in making various organic compounds.
5. Pigment in making anti-fouling paints and varnishes.
6. Ingredient of various cosmetics, grease paints, and pomades.

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Used as intensifier in photography.

Eimer and Amend has the production capacity, the technical "know-how" and the experienced personnel at its Edgewater, N. J., manufacturing plant for furnishing high purity Mercuric Compounds for industrial use. The company has 99 years experience as manufacturing chemists and its E. & A. Tested Purity Reagents have become standards for precise analytical work.

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Manufacturing Chemists

# Current Market Quotations

## Chemicals and Related Materials

### March 3, 1950

**Unless otherwise indicated, listings are first-hand quotations on large lots, f.o.b. New York. Changes and trends are noted in the market reports, with other informative comment. The locations of these reports are given in the table of contents on page 4. The figures in the two columns do not represent bid and asked prices nor a range over the week. They are the quotations prevailing on the date above, on the basis of differences in one or more of these factors:—Quantity, quality, locality, individual supplier's views.**

**All matters under this heading fully protected by copyright.**

## A

**Acacia** (see Gum, arabic).

**Acenaphthene**, m.p. below 92.5 C., dms., works lb. .40 - —
above 92.5 C. dms., works lb. .50 - —

**Acetaldehyde**, 99%, dms., c.l., frt. equald lb. .11½- —
l.c.l., frt. equald lb. .12 - .12½
tanks, frt. equald lb. .09½- —

**Acetaldol** (see Aldol).

**Acetamide**, tech., fib., dms lb. .45 - —

**Acetanilide**, tech., bbls., c.l., dlvd. or frt. equald lb. .22 - —
l.c.l., ton lots lb. .23 - —
smaller lots lb. .26 - —
USP, bbls., 2,000-lb. lots lb. .50 - —
smaller lots lb. .56 - —

**Acetic anhydride**, dms., c.l., frt. alld. E lb. .13 - —
l.c.l., frt. alld. E lb. .14½- —
tanks, frt. alld. E lb. .11½- —

**Acetoacetanilide**, bbls., dlvd lb. .67½- —
fib. dms., c.l., dlvd lb. .66½- —
l.c.l., dlvd lb. .67½- —

**Acetoacetorthoanisidide**, fib. dms., works, 500 lbs. or more lb. 1.50 - —
smaller lots, same basis lb. 1.75 - —

**Acetoacetorthochloranilide**, bbls., dlvd lb. 1.15 - —
fib. dms., c.l., works lb. 1.14 - —
l.c.l., works lb. 1.15 - —

**Acetoacetorthotoluidide**, bbls., dlvd lb. .90 - —
fib. dms., c.l., works lb. .71 - —
l.c.l. lb. .72 - .75

**Acetone**, CP, dms., c.l., dlvd lb. .09 - —
l.c.l., dlvd lb. .09½- .10
tanks, dlvd .07½- —

Methyl (see M).

**Acetonitrile**, dms., c.l., works lb. .43 - —
l.c.l., works lb. .45 - —

**Acetophenetidin**, USP, bbls., works, frt. equald lb. 1.10 - 1.33

**Acetophenone**, cns., dms lb. 1.30 - 1.35
tech., L.c.l., dms., works lb. .75 - —

**Acetoacetoparaphenetidide**, dms., 500 lbs. or more, works lb. 1.65 - —
smaller lots, same basis lb. 1.90 - —

**Acetyl chloride**, cbys., works lb. 50 - .60

**Acetyltributyl citrate**, dms lb. .43 - .45
smaller pkgs lb. .48 - .54

**Acetyltriethyl citrate**, dms lb. .36 - .38
smaller pkgs lb. .41 - .47

**Acid, abietic**, com'l, dms., c.l., works lb. .10 - —
l.c.l., works lb. .1145- —
cryst., dms., c.l., works lb. .05½- —
l.c.l., works lb. .06 - .06½

**Acetic**, com'l or redist., 28%, bbls. 100 lbs. 4.00 - —
56%, bbls 100 lbs. 7.00 - —
70%, bbls 100 lbs. 8.40 - —
80%, bbls 100 lbs. 9.40 - —
glacial, synthetic, CP, dms., works 100 lbs. 13.00 - —
cbys., works 100 lbs. 18.00 - -22.00
USP, cbys., works 100 lbs. 13.50 - -17.50
tech., dms., c.l., works 100 lbs. 9.00 - 9.50
l.c.l., works 100 lbs. 9.50 - -10.00
tanks, works 100 lbs. 7.50 - —

Acetic acid price ranges above are for 40 bbls. or more and for smaller lots. Carboys and cases are 50c. per 100 lbs. higher.

**Acetic anhydride** (see Acetic anhydride above).

**Acetylsalicylic**, USP, special, bbls., makers, primary distrib., point of ship't, 100-lb. lots lb. .53 - —
standard, fine, cryst., gran., (30-40 mesh) powd. (80 mesh), bbls., same basis. lb. .48 - —

Freight equald, ship't identical quantity over standard routes, from N. Y., Phila., Midland, Mich., Chicago and St. Louis.

**Aconitic**, 5,000 lbs. 1 shipt., dms lb. .49 - —
smaller lots, dms lb. .49½- .54½

**Adipic**, fib. dms., works lb. .26½- —

**Aminoacetic**, NF, bbls., frt. adjusted lb. 1.50 - 1.75
tech., bbls. lb. 2.10 - —
tech., bbls. lb. 1.10 - —

**Arsenous**, tech (see Arsenic, white).
USP (see Arsenic trioxide).

**Ascorbic**, USP dms., 500-kilo lots kilo.24.50 - —
25-50 kilo lots kilo.25.00 - —
10-kilo lots kilo.25.35 - —
5-kilo lots kilo.25.70 - —
bots., kilo lots kilo.26.41 - —
500 grams kilo.27.47 - —

**Battery**, cbys., c.l., E. works 100 lbs. 1.60 - 1.75
l.c.l., E. works 100 lbs. 2.15 - 2.85

**Benzoic**, tech., bbls., dms., 100 lbs. or more lb. .43 - —
USP, bbls., dms., 100 lbs. up lb. .54 - —

**Betaoxynaphthoic**, bbls., works lb. 1.23 - —

**Boric**, tech., 99½%, cryst., bgs., c.l., works ton.115.25 - —
ton lots, ex whse, N. Y. or Chi. ton.160.00 - —
less ton lots, same basis. ton.165.00 - —
bbls., c.l., works ton.135.25 - —
ton lots, ex whse., N. Y. or Chi. ton.180.00 - —
less ton lots, same basis. ton.185.00 - —
bulk, c.l., works ton.111.75 - —
gran., bgs., c.l., works ton.90.25 - —
ton lots, ex whse., N. Y. or Chi. ton.135.00 - —
less ton lots, same basis. ton.140.00 - —
bbls, c.l., works ton.110.25 - —
ton lots, ex whse., N. Y. or Chi. ton.155.00 - —
less ton lots, same basis. ton.160.00 - —

**Boric**, tech., 99½%, gran., bulk, c.l., works ton.86.75 - —
powd., bgs., c.l., works ton.95.25 - —
ton lots, ex whse., N. Y. or Chi ton.140.00 - —
less ton lots, same basis. ton.145.00 - —
bbls., c.l., works ton.115.25 - —
ton lots, ex whse., N. Y. or Chi ton.160.00 - —
less ton lots, same basis. ton.165.00 - —
bulk, c.l., works ton.91.75 - —
USP $25 per ton higher.

**Broener's**, bbls lb. 1.34 - —

**Butyric**, 99%, dms., c.l., works lb. .34½- —
l.c.l., works lb. .35 - —
tankcars, works lb. .33 - —

**Cacodylic**, bots. lb.10.00 -11.00

**Camphoric**, natural, dms lb. 5.00 - 5.63
synth., dms lb. 4.00 - 4.75

**Capric**, tech., dms lb. .40½- —

**Caprylic**, dms lb. .40½- —

**Castor oil**, split, dms lb. .26½- .27

**Chlorosulphonic**, dms., c.l., works. lb. .03¼- —
l.c.l., works lb. .03¾- —
tanks, works lb. .02¾- —

**Chromic**, 99½-99¾%, dms., c.l. works lb. .25½ —
l.c.l., works lb. .26 .27
USP (see Chromium trioxide).

**Cinnamic**, refd., bots lb. 2.50 4.00

**Citric**, anhyd., gran., fine gran., dms., c.l. lb. .26½ —
10,000 lbs., 1 ship't lb. .27 - —
smaller lots lb. .27½- —
kgs. lb. .28½- —
Anhydrous citric acid powder, ½c. per lb higher.
USP, cryst., dms., c.l. lb. .27½- —
10,000 lbs., 1 ship't lb. .28 - —
smaller lots lb .28½- —
kgs. lb. .29½- —
gran., fine gran., dms., c.l. lb. .24½- —
10,000 lbs., 1 ship't lb. .25 - —
smaller lots lb. .25½- —
kgs. lb. .26½- —
USP citric acid powder ½c. per lb. higher.

**Cleve's**, mixed, bbls lb. .65 .66

**Coconut oil**, dist., dms lb. .23¼- .24½
double dist., dms lb. .25¼- .26½

**Corn oil**, s.d., dms lb. .10 - .10½

**Cottonseed oil**, dist., dms lb. .09¼- .10¼

**Cresylic**, dom., coaltar, 50% above 207°C, non-ret. dms., c.l., frt. equald gal. .81 - 96
l.c.l., non-ret. dms., same basis gal. .84 - .99
ret. dms., c.l., same basis gal. .88 - —
l.c.l., same basis gal. .91 - —

**Cresylic**, dom., coaltar, 50% above 207°C, tanks, same basis gal. .70 - .83
204° to 207° C, non-ret. dms., c.l., same basis gal. .86 - .96
l.c.l., same basis gal. .90 - .99
ret. dms., c.l., same basis. gal. .93 - —
l.c.l., same basis gal. .96 - —
tanks, same basis gal. .75 - .83

**petroleum**, 179°C to 198°C, non-ret. dms., c.l., San Francisco and Los Angeles gal. .72½- —
l.c.l., same basis gal. .74½- .76½
tanks, same basis gal. .62 - —
195° to 213°C, non-ret. dms., c.l., San Francisco and Los Angeles gal. .60½- —
l.c.l., same basis gal. .62½- .64½
tanks, same basis gal. .50 - —
200°C to 222°C, tanks, Wilmington, Cal. gal. .50 - —
211°C to 236°C, non-ret. dms., c.l., San Francisco and Los Angeles gal. .58½- —
l.c.l., same basis gal. .60½- .62½
tanks, same basis gal. .48 - —
220°C to 242°C, tanks, Wilmington, Cal gal. .48 .51
237°C to 265°C, non-ret. dms., c.l., San Francisco and Los Angeles gal. .56½- —
l.c.l., same basis gal. .58½- .60½
tanks, same basis gal. .46 - —
243°C to 298°C, tanks, Wilmington, Cal gal. .46 - —
295°C to 325°C, tanks, Wilmington, Cal gal. .36 - —
imported, coaltar, 75% at 215°C or over, dms., c.l.f. gal. .50 - —

**Crotonic**, fib dms., works lb. .29 - —

**Cyanoacetic**, tech., bbls lb. .90 1.25

**Desoxycholic** lb.17.00 -22.00

**Dichlorophenoxyacetic**, (see "D", 2, 4-D)

**Diethylbarbituric** (see Barbital).

**Diglycolic**, bgs., works lb. .22 —

**Ethylhexoic**, dms., c.l., works lb. .31 —
l.c.l., works lb. .31½- —
tanks, works lb. .29½- —

**F**, bbls., works lb. 1.87 1.93

**Folic**, bots., fib. ctns., kilo or more gram. 2.00 —

**Formic**, 85%, cbys., c.l., works lb. .13 - .13½
l.c.l., works lb. .13½- .14
90%, cbys., c.l., works lb. .13½- .14
l.c.l., works lb. .14 .14½

**Fumaric**, tech., bbls., dms lb. .30 .31

**Gallic**, NF VII, bbls., 1,000-lb. lots lb. 1.60 —
smaller lots lb. 1.63 1.65

**Technical**, bbls., 1,000-lb. lots lb. 1.43 —
smaller lots lb. 1.46 1.48

**Gamma**, bbls lb. 1.20 —

**Gluconic**, tech., 50%, bots. lb. .23 - .31
dms. lb. .14 - —
kgs. lb. .16 - —

**Glutamic**, laevo, 99%, fiber dms., 100 lb. lots, works lb. 2.20 - 2.45
25 lb. lots lb. 2.45 - —

**Glycerophosphoric**, 35%, dms., works lb. 2.15 - 2.25

**Glycolic** (see Acid, hydroxyacetic).

**H**, 100% basis, bbls., works lb. .73½- —

**Hydriodic**, 45-47%, cbys lb. 2.37 - 2.39
57%, cbys lb. 2.86 - —

**Hydrobromic**, medicinal, 48%, cbys., dlvd. E lb. .36 —
tech., 48%, cbys., dlvd. E lb. .34 .36
34%, cbys., dlvd E lb. .35 .37

**Hydrochloric** (see Acid, muriatic).

**Hydrocyanic**, cyls., works lb. 1.00 - —
dilute, NF, 2%, 5-lb. bots lb. .37 - —

**Hydrofluoric**, anhyd., cyls., works. lb. .19 - .19½
tanks, works lb. .16½- —
30%, wood or rubber, dms., works lb. .06½- .09
70%, steel dms., works lb. .143 - .148

**Hydrofluosilicic**, 30-35%, bbls lb. .06 - .09

**Hydroxyacetic**, tech., 70%, bbls., non-return., Phila lb. .084 - —
tanks, Belle, W. Va., 100% basis lb. .063 - —

**Hypophosphorus**, purif., 50%, cbys. lb . 1.30 - 1.32

**USP**, cbys lb. .78 - —

**J**, bbls., works, 100% basis lb. 2.50 - 2.65

**L**, bbls., works lb. .95 - —

**Lactic**, edible, 50%, bbls., 20 or more lb. .16 - .18
smaller lots lb. .17 - .19
80%, bbls., 20 bbls. or more, lb. .285 - .332
plastic grade, 50%, bbls., 20 or more lb. .19¾- —
10 or less lb. .20¾- —
80%, bbls., 5 or less lb. .3495- .3545
tech., 22%, bbls., L.c.l., works 100 lbs. 5.80 - —
l.c.l., works 100 lbs. 6.20 - —
cbys., works 100 lbs. 6.70 - —
44%, bbls., c.l., works 100 lbs. 10.95 - —
l.c.l., bbls., works 100 lbs. 11.35 - —
cbys., works 100 lbs. 11.85 - —

**NF**, 85%, cbys lb. .69 - .72

**Laurent's**, bbls lb. .87 - —

**Lauric**, dist., 85-90%, dms lb. .23 - .23¼
60%, dms. lb. .25 - .25½

**Linseed oil**, reg. dist., dms lb. .2150- .2210
water-white, dms lb. .2450- .2510

**Maleic**, powd., dms lb. .30 - .31
Anhydride (see M).

**Malic**, dms lb. .45 - —

**Mandelic**, NF, dms., 1,000-lb. lots lb. 1.83 - —
smaller lots lb. 1.90 - 2.10

**Methacrylic**, dms., c.l., and truckloads, works lb. .76 - —
less than truckload, works lb. .76½- .80

**Mixed**, tanks, nitric unit lb. .05 .06
sulphuric unit lb. .0085- .009

**Molybdic**, dms., 85%-92%, works lb. .88 - —

**Monochloroacetic**, purified, flake, 99%, dms lb. .22½- .23¼
tech., flake 96-97%, bbls lb. .18 .19

**Muriatic**, 18°, cbys., c.l., E. works 100 lbs. 1.65 - —
l.c.l., E. works 100 lbs. 2.05 - 2.75
tanks, works ton.20.00 - —
20°, cbys., c.l., works 100 lbs. 1.90 - —
tanks, E. works ton.22.00 - —
22°, cbys., c.l., works 100 lbs. 2.40 - —
tanks, E. works ton.27.00 - —
CP, USP, consumers, cbys., extra, c.l., frt. equald lb. .07¾- —
l.c.l., same basis lb. .09¼- .09¾
5 pint bottles extra, c.l., frt. equald lb. .12¾- —
l.c.l. same basis lb. .14¼- .15¼

**Acid, muriatic**, CP, USP, prices to dealers 1½c. per pound less.

**Myristic**, dist., dms lb. .30½- —

**Naphthenic**, 220-230 acidity, dms., works lb. .13 - —
tanks, works lb. .11 - —
230-240 acidity, dms., works lb. .22 - —
tanks, works lb. .19 - —

**Naphthol**(1)-4-sulphonic (see Acid, Neville and Winther's)

**Naphthol** (1)-5-sulphonic see Acid, L).

**Naphthol**(1)-5-sulphonic,8-amino (see Acid, S).

**Naphthol**(1)-3,6-disulphonic,8-amino (see Acid, H).

**Naphthol**(2)-6,8-disulphonic (see Acid, Gamma)
(2)-7-Sulphonic,2-amino (see Acid, J).

**Naphtholsulphonic**, mixed (see Acid, Cleve's, mixed)

**Naphthylamine**(1)-3-sulphonic (see Acid, Laurent's).
(2)-6-sulphonic (see Acid, Broener's).
(2)-7-sulphonic (see Acid, F).
(2)-1-sulphonic (see Acid, Tobias).

**Neville and Winther's**, dms lb. .88 - —

**Nicotinic**, USP, dms., frt. adjusted kilo. 8.00 - 8.30

**Nicotinic amide** (see Nicotinamide).

**Nitric**, 36° cbys., c.l., E. works 100 lbs. 5.00 - —
l.c.l., E. works 100 lbs. 5.40 - 6.10
38°, cbys. c.l., E. works 100 lbs. 5.50 - —
l.c.l., E. works 100 lbs. 5.90 - 6.60
40°, cbys., c.l., E. works 100 lbs. 6.00 - 6.50
l.c.l., E. works 100 lbs. 6.40 - 7.10
42°, cbys., c.l., E. works 100 lbs. 6.50 - 7.00
l.c.l., E. works 100 lbs. 6.90 - 7.60
CP, NF, consumers, cbys., extra, c.l., frt. equald lb. .11½- —
l.c.l., same basis lb. .13 .13½
5 pint bottles extra, cs., c.l., frt. equald lb. .15½- —
l.c.l. same basis lb. .17 .18

**Acid, muriatic**, CP, USP, prices to dealers 1½c. per pound less.

**Octoic** (see Acid, ethylhexoic).

**Oleic** (see Oil, red)

**Oleum** (see Acid, sulphuric, fuming).

**Orthocresotinic**, dms. ton lots, works lb. 62 - —
smaller lots, works lb. .64 - —

## *Abbreviations*

### *Used in OPD Market Quotations*

| | | | | | |
|---|---|---|---|---|---|
| | American Chemical Society | dist. | distilled | neut. | neutral. |
| | | dextro. | dextrorotatory | NF | National Formulary |
| ACS | | distr. | distributor | | |
| alld. | allowed | djns. | demijohns | nom. | nominal |
| ammo. | ammonia | dlvd. | delivered | No. | number |
| amorph. | amorphous | dms. | drums | ord. | ordinary |
| anhyd. | anhydrous | dom. | domestic | oz. | ounce |
| a.p.a. | available phosphoric acid | E. | east | Pac. | Pacific |
| artif. | artificial | e.p. | end point | pf. | proof |
| ASTM. | American Society for Testing Materials | equald. | equalized | phos. | phosphate |
| | | F. | fahrenheit | photo. | photographic |
| Be. | Baume | ferment. | fermentation | pkgs. | packages |
| bgs. | bags | ffa. | free fatty acid | powd. | powdered |
| bbls. | barrels | ffc. | free from chlorine | precip. | precipitated |
| bls. | bales | | | prod. | producer |
| bots. | bottles | fib. | fiber | pt. | point |
| b.p. | boiling point | f.o.b. | free on board | pulv. | pulverized |
| b.p.l. | bone phosphate of lime | F.P.A. | free of prussic acid | purif. | purified |
| | | | | redist. | redistilled |
| b.r. | boiling range | frt. | freight | refd. | refined |
| bxs. | boxes | fus. | fused | refy. | refinery |
| C. | centigrade | gal. | gallon | reg. | regular |
| cbys. | carboys | gran. | granular | resub. | resublimed |
| CD | completely denatured | grd. | ground | ret. | returnable |
| | | I.&a. | iron and aluminum | SD | specially denatured |
| c.i.f. | cost, insurance, freight | i.b.p. | initial boiling point | s.d | single distilled |
| cks. | casks | | | S. E. | southeast |
| c.l. | car lots | imp. | imported | secs. | seconds |
| cns. | cans | incl. | included | s.g. | specific gravity |
| col. | color | indust. | industrial | ship't | shipment |
| com'l | commercial | kgs. | kegs | solut. | solution |
| conc. | concentrated | lacq. | lacquer | s.u. | standard unit |
| CP | chemically pure | lb. | pound | synth. | synthetic |
| cps. | centipoises | l.c.l. | less than car lots | tech. | technical |
| cryst. | crystal | liq. | liquid | USP | U. S. Pharmacopoeia |
| cs. | cases | m.a.p. | mixed aniline point | vis. | viscosity |
| ctns. | cartons | | | VM&P | varnish makers & painters |
| cyls. | cylinders | min. | minimum | | |
| dbl. | double | m.p. | melting point | W | west |
| denat. | denatured | N. | nitrogen | w.w. | water white |
| dest.-dist. | destructive-distilled | nat. | natural | whse. | warehouse |

**A unit-ton is 2,000 pounds of 1 percent of the basic constituent or other standard of the material. The percentage figure of the basic constituent multiplied by the price figure shown, gives the price of 2,000 pounds of the material.**

## Acid, Oxalic—Allspice

Acid, oxalic, bbls., c.l., works lb. .14¼- —
10,000 lbs., works lb. .14½- —
smaller lots, works lb. .15¼- .15¾
Palm oil, white, dist., dms lb. .21¼- .21¾
Para-aminobenzoic, purified, dms.
100 lbs. or more, works lb. 3.75 —
smaller lots, works lb. 3.85 4.00
technical, dms lb. 1.84 —
Para-aminosalicylic, dms., 1,000-lb. lots or more lb. 6.50 - —
smaller lots lb. 6.55 - 7.50
Paramethylphenylcinchonic (see Neocinchophen).
Paranitrobenzoic cns. lb. nf —
Paratoluidinmetasulphonic, bbls., works lb. .92 —
Peanut oil, s.d., dms lb. .12¾- .13¾
Perchloric, 60%, cbys., works lb. .58 .62
70-72%, cbys., works lb. .61 .66
Phenylacetic, bots lb 1.51 1.75
Phenylcinchoninic (see Cinchophen).
Phenylglycollic (see Acid mandelic).
Phosphoric, food grade, 75%, cbys., c.l., works, frt. equald 100 lbs. 6.50 - —
t.c.l., works, frt. alld. 100 lbs. 7.50 - —
tanks, works, frt. equald 100 lbs. 4.50 - —
NF, 85%, cbys., c.l lb. .10½- —
For shipments in cbys., add handling charges.
Picramic, ogs. lb. .65 .70
Picric, tech., bbls lb. .32 .33
NF, bbls. lb. .42 —
Propionic, nat., dms., works lb. .18 —
tanks, works lb. .17 —
synth., pure, dms., works lb. .22 —
tanks, works lb. .21 —
Pyrogallic, tech., bbls lb. No prices.
NF, cryst., dms lb. 2.95 3.18
resub., dms lb. 3.30 - 3.45
Pyroligneous, dms. incl., l.c.l., ex whse gal. .43 - —

Acid, ricinoleate (see Acid, castor oil, split).
S, bbls., works lb. 2.97 3.00
Salicylic, crude, bbls lb. .28 - —
sublimed, tech., bbls., c.l. lb. .31 - —
l.c.l. lb. .38 - —
dyestuffs grade, bbls lb. .32 - —
USP, cryst., bbls lb. .40 - —
powder, bbls lb. .45 - —
Sebacic, purified, dms., c.l., works. lb. .47 - —
t.c.l., works lb. .49 .53
Soybean oil, single dist., dms lb. .10¾- .11¾
double dist., dms lb. .11¾- .12¾
Stearic, double pressed, bgs lb. .14 - .15
single-pressed, bgs. lb. .13 - .14
triple-pressed, bgs. lb. .16¼- .17¼
Succinic, bbls., cryst., purified, works lb. .75 - —
tech., bbls., works lb. .65 .75
Sulphanilic, tech., dms., c.l., works lb. .15 - —
l.c.l., works lb. .17 - —
Sulphuric, 60° Be, cbys., c.l., E. works 100 lbs. 1.40 —
t.c.l., E. works 100 lbs. 1.80 2.50
tanks, E. works ton. 13.75 -14.50
66° Be, cbys. c.l., E. works 100 lbs. 1.62 —
t.c.l., E. works 100 lbs. 2.05 2.75
tanks, E. works ton. 17.00 -18.00
98%, tanks, E. works ton. 19.00 - —
CP, NF, consumers, cbys., extra, c.l., works, frt. equald lb. .07¾- —
l.c.l., same basis lb. .09¼- .09¾
8 pt. bottles extra, cs., c.l., works, frt. equald lb. .11¼- —
t.c.l., same basis lb. .12¾- .13¾
fuming, 20%, tanks, E works. ton. 20.00 - —
Tallow, dist., dms lb. .09¾- .10¼
Tannic, tech., 60-62%, dms lb. .68 .69
70-72%, dms. lb. .80 .85
75-76%, dms. lb. .86 .90

Acid, tannic, USP, fluffy, bbls., 1,000-lb. lots lb. 1.45 - —
smaller lots lb. 1.46 - 1.55
powder, bbls., 1,000-lb. lots lb. 1.35 - —
smaller lots lb. 1.36 - 1.50
Tartaric, USP, dom., 230, 250 lb. dms., 10,000 lbs., 1 ship't. lb. .31½- —
smaller lots lb. .32 - —
100-lb. dms lb. .33 - —
small, dms lb. .35 - .37
imported, kgs lb. .28 - .30
Thioglycolic, refined, bbls., cbys., basis 100% lb. 1.60 - 1.80
tech., bbls., cbys., basis 100% lb. 1.40 - —
Tobias, bbls. lb. .65 - —
Trichloroacetic, bots. lb. 2.00 - 2.50
Toluenesulphonic, dms., c.l., works lb. .18½- —
t.c.l., works lb. .20 - —
tanks, works lb. .17 - —
Tungstic, tech., kgs., works lb. 2.20 - 2.40
Aconite leaves, bls lb. .55 - .60
Root, bbls. lb. .60 - .70
Aconitine, amorph., mild, bots oz. 27.50 -32.50
cryst., potent, bots oz. 78.00 -85.00
Acrolein, dms., works lb. .50 - —
Acrylonitrile, dms., c.l., works lb. .36½- —
t.c.l., works lb. .37 - .55
tanks, works lb. .35 - —
Adeps lanae (see Lanolin)
Adonis vernalis herb, bls lb. .30 - .40
Agar, USP, Kobe, No. 1 strip, bls lb. 1.35 - 1.40
powdered, 30 mesh, fib. dms lb. 1.65 - —
Agaric, white, bls lb. 1.50 - 1.75
Agrimony herb, bls lb. .30 - .35
Alanine, dextro-laevo, dms., works, lb. 8.50 -11.00
Albumen (egg), edible, flake, bbls lb. 1.30 - 1.40
powd., bbls lb. 1.35 - 1.45
tech., cryst., bbls lb. .78 - .85

Albumin, blood, dark (see Blood, dried, soluble)
light, dms., l.c.l. lb. .67½- .72½
Egg (see Albumen).
Alcohol, allyl, dms., c.l., dlvd lb. .31½- —
works lb. .32½- —
l.c.l., dlvd lb. .32½- —
works lb. .33 - —
tanks, dlvd lb. .30 - —
works lb. .31 - —
Amyl, ex pentane, dms., c.l., frt. alld, E. of Miss lb. .16 - —
t.c.l., frt. alld. E. of Miss lb. .17 - —
tanks, frt. alld. E. of Miss lb. .15 - —
(see also Fusel oil, ref.)
fermentation, refined, 126-132°C, dms., c.l., dlvd lb. .33½- —
t.c.l., dlvd lb. .34½- —
tanks, dlvd lb. .32 - —
128-132°C, dms., t.c.l., dlvd. lb. .36 - —
ACS grade, dms., t.c.l., dlvd lb. .42 - —
Benzyl, dms. lb. .60 .88
tech., dms., works, frt. equald. lb. .45 - .50
Butyl, fermentation, normal, Ill., Ind. prod., dms., c.l., frt. alld lb. .13½- —
t.c.l., frt. alld lb. .14½- —
tanks, frt. alld lb. .12 - —
tankwagon, frt. alld lb. .12½- —
other production, dms., c.l., frt. alld lb. .13½- —
t.c.l., frt. alld lb. .14½- —
tanks, frt. alld lb. .12 - —
synthetic, normal, dms., c.l., frt. alld lb. .13½- —
t.c.l., frt. alld lb. .14½- —
tanks, frt. alld lb. .12 - —
secondary, dms., c.l., frt. alld. lb. .10½- —
t.c.l., dlvd., frt. alld lb. .11 - —
tanks, dlvd., frt. alld lb. .09 - —
tertiary, dms., c.l., frt. alld. lb. .13½- —
t.c.l., frt. alld lb. .14 - —
tanks, frt. alld lb. .12 - —
Capryl, dms., c.l., works lb. .26 - —
t.c.l. works lb. .27 - —
tanks, works lb. .24½- —
Cetyl, dom., CP., fiber ctns., 1,000 lbs. lb. 1.50 - —
smaller lots lb. 1.55 - —
Cinnamic, bots lb. 2.75 - 2.95
Denatured, CD12, CD13, CD14, dms., dlvd. E. of Miss. R. gal. .42½- —
t.c.l., dlvd. E. of Miss. R gal. .46½- .51¼
tanks, dlvd. E. of Miss. R gal. .32½- —
Tankcar sales require written authorization by Alcohol Tax Unit.
SD1, 190 pf., dms., c.l., dlvd, E. of Miss. R. gal. .41½- —
t.c.l., same basis gal. .45½- .50¼
tanks, same basis gal. .31½- —
SD2B, dms., c.l., E. of Miss. R. gal. .40 —
t.c.l., same basis gal. .44 .49
tanks, same basis gal. .30 —
SD23H, dms., c.l., dlvd. E. of Miss. R gal. .43 —
t.c.l., same basis gal. .47 - .52
tanks, same basis gal. .33 —
SD29, denatured, with acetaldehyde, dms., c.l., dlvd. E. of Miss. R gal. .40½- —
t.c.l., same basis gal. .44½- .49¼
tanks, same basis gal. .30½- —
When any of the several SD29 denaturants is supplied by the purchaser, the prices are the same as those of SD21 plus 1½c. per gal. denaturing charge.
Proprietary solvent, dms., c.l., dlvd. E. Miss. R gal. .42½- —
t.c.l., same basis gal. 46½- .51¼
tanks, same basis gal. .32½- —
Tankcar sales require written authorization by Alcohol Tax Unit.
Special solvent (see Alcohol, denat., proprietary).
Diacetone, acetone free, dms., c.l., dlvd lb. .13½- —
t.c.l., dlvd lb. .14 - —
tanks, dlvd lb. .12 - —
tech., dms., c.l., dlvd lb. .13 - —
t.c.l., dlvd lb. .13½- —
tanks, dlvd lb. .11½- —
Ethyl, 190 pf., USP, tax paid, dms., c.l., dlvd. E. Miss. R gal. 17.49 - —
t.c.l., same basis gal. 17.53 -17.58
tanks, same basis gal. 17.39 - —
tax free, dms., c.l., dlvd. E. Miss. R gal. .39 - —
t.c.l., same basis gal. .43 - .48
tanks, same basis gal. .29 - —
absolute, 200 pf., tax paid, dms., c.l., same basis gal. 18.44 - —
t.c.l., same basis gal. 18.48 -18.53
tanks, same basis gal. 18.34 - —
Ethylhexyl, dms., c.l., works lb. .30 - —
t.c.l., same basis lb. .30½- —
tanks, same basis lb. .23½- —
Furfuryl, tech., cns., works lb. .30 - —
dms., c.l., works lb. .21½- —
t.c.l., works lb. .23 - —
tanks, works lb. .18 - —
Isoamyl (see Alcohol, amyl refined, fermentation).
Isobutyl, dms., c.l., dlvd lb. .13½- —
t.c.l., works lb. .14½- —
tanks, dlvd lb. .12 - —
Iso-octyl, dms., c.l., works lb. .29½- —
t.c.l., works lb. .29¾- —
tanks, works lb. .27¾- —
Isopropyl, refd., 91%, dms. incl., c.l., dlvd gal. .38 - —
t.c.l., dlvd gal. 41 - —
tanks, dlvd gal. .28 - —
95%, dms. incl., c.l., dlvd gal. .39½- —
t.c.l., dlvd gal. .42½- —
tanks, dlvd gal. .29½- —
NF, 99%, dms. incl., c.l., dlvd. gal. .41 - —
t.c.l., dlvd gal. .44 - —
tanks, dlvd gal. .31 - —
Methyl (see Metnanol).
Methylamyl (see Carbinol, methyl-isobutyl).
Nonyl (see Trimethylhexonal).
Octyl, perfumer's grade, bots lb. 2.15 - 3.25
technical (see Octanol normal).
Pantothenyl (see Panthenol).
Phenylethyl, cns. lb. 1.40 - 1.70
Polyvinyl, type A, fiber-pack, Niagara Falls lb. .65 .70
type B, fiber-pack, same basis lb. .60 .68
Propyl, normal, dms., c.l., dlvd. lb. .09½- —
works lb. .08 - —
t.c.l., dlvd lb. .10 - —
works lb. .08½- —
tanks, dlvd lb. .08 - —
works lb. .06½- —
Salicyl (see Saligenin).
Tetrahydrofurfuryl, cns., Cedar Rapids, Ia lb. .47 - —
dms., c.l., Waverly, N. Y. lb. .40 - —
t.c.l., same basis lb. .44 - —
tanks, Niagara Falls, N. Y. lb. .36 - —
Aldol, 95%, dms., works lb. .15 - .16
denaturing grade, dms. gal. 1.33 - 1.48
Aletris root, bgs. lb. 1.50 - 1.60
Algin, bbls., fib. dms. lb. .76 - 1.00
Alizarin (see Red, alizarin)
Alkanet root, bgs. lb. .35 - .40
Allspice, Jamaica (see Pimento).
Mexican, bgs. lb. .20 Nom.


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Allyl bromide, cbys., 5,000 lbs., works lb. .99 - —
smaller lots, works lb. 1.05 - 1.10
Chloride, dms., c.l., dlvd lb. .16½ - —
l.c.l., dlvd. lb. .17 - —
tanks, dlvd. lb. .15 - —
Aloe, Cape, cs lb. .21 - .23
Curacao, kgs lb. .35 - .36
Socotrine, kgs lb. .35 - .36
Aloin, USP, bbls., dms., kgs lb. 3.50 - —
Alphacellulose, bgs., c.l., works lb. .04 - .15
Alphanaphthol, bbls lb. .70 - —
Alphanaphthylamine, bbls lb. .41 - .43
Alphanaphthylthiourea, 93-98%, fib. dms., works, frt. alld lb. 2.00 - 2.40
Alphanitronaphthalene, bbls lb. .34 - —
Alphapicoline, ret. dms., c.l., works, frt. equald lb. .29½ - —
l.c.l., works, frt. equald lb. .30 - —
Alphapinene, tanks, South, works gal. No prices.
Alphaterpineol, dms., l.c.l., dlvd. f. lb. .17 - —
Alphatocopherol, bots kilo. 350.00 - —
Acetate, bots kilo. 350.00 - —
Althea root, NF, peeled, bls lb. .30 - .40
Alum, ammonia, gran., bbls., works, 100 lbs. 3.30 - —
lump, bbls., works 100 lbs. 4.05 - —
powd., bbls., works 100 lbs. 4.20 - —
USP, burnt, bbls. lb. .20 - .21
hydrous, bbls. lb. .07¾ - .08
Potash, gran., bbls., works 100 lbs. 4.05 - —
lump, bbls., works 100 lbs. 4.30 - —
powd., bbls., works 100 lbs. 4.45 - —
USP, hydrous, bbls. lb. .07¾ - .08
Potash-chrome, dms lb. .17 - —
Soda, bbls., c.l., works 100 lbs. 3.25 - —
l.c.l., dlvd 100 lbs. 4.25 - 5.00
Alumina, calcined, bgs., c.l., works lb. .03½ - .05
crystalline (see Aluminum oxide).
Aluminum acetate, basic solution, 24%, bbls., l.c.l., works lb. .11 - —
20%, bbls., l.c.l., works lb. .10 - —
Chloride, anhyd., com'l, dms., c.l., works lb. .11 - .11½
l.c.l., works lb. .11½ - .12
cryst., com'l, dms., c.l., works lb. .0650 - —
l.c.l., works lb. .0690 - —
NF, gran., dms., works lb. .27 - .28
solution, 32°, cbys., c.l., works lb. .03¼ - —
l.c.l., works lb. .04 - —
Fluoride, tech., anhyd., bbls., c.l., works lb. .10 - —
l.c.l., works lb. .11 - .13
Formate, basic solution, cbys., c.l. lb. .09½ - —
l.c.l., works lb. .10 - —
Hydrate, heavy, bgs., c.l., frt. equald ton. 50.00 -54.00
l.c.l., works ton. 72.00 -86.00
light, bgs., dlvd lb. .17 - —
Hydroxide, gel, pharmaceutical, 14-15% $Al_2O_3$, fib. dms., works lb. .21¼ - —
contract, works lb. .20¼ - —
9-9½% $Al_2O_3$, fib. dms., works lb. .18¼ - —
contract, works lb. .17¼ - —
dried, USP XII, fib. dms., works. lb. .79½ - —
contract, works lb. 76½ - —
powder, tech. (see Aluminum hydrate).
Laurate, precip., bbls lb. .38½ - —
Linoleate, solid, dms., frt. alld lb. .39½
Metal, 98-99%, ingots, 10,000 lbs. lb. .17 - —
pigs, 10,000 lbs lb. .16 - —
Naphthenate, liquid, 1.7%, frt. alld lb. .24½ - .25
Oleate, dms, precip lb. .33¼ - —
Oxide, amorphous (see Alumina, calcined).
crystalline, flour, classified, 8-240 mesh, dms., frt. alld lb. .14 - .15
kgs., ton, frt. alld lb. .12½ - —
smaller lots, frt. alld. lb. .13 - .15
230-400 mesh, dms., frt. alld lb. .32 - .33
kgs., frt. alld lb. .31 - —
500 mesh, dms., frt. alld lb. .35 - .37
kgs., frt. alld lb. .34 - —
600 mesh, dms., frt. alld. lb. .51 - .53
kgs. frt. alld lb. .50 - —
optical, floated, kgs., dlvd lb. .36 - .86
unclassified, dms., frt. alld. lb. .16 - .17
kgs., frt. alld lb .15 - —
high-purity, alpha or gamma, ultrafine, dms., works lb. 13.50 - —
jars, works lb. 15.00 -17.00
Aluminum oxide flour prices W of Denver ¾c per lb. higher
Paste, lining, extra fine, dms lb. .58 - —
standard, dms lb. .39½ - —
Powder, lining, extra fine, dms. lb. .96 - —
standard, dms lb. .64½ - —
rubber comp., dms lb. .43½ - —
unpolished, standard, dms lb. 44½ - —
varnish standard, dms lb 49 - —

Aluminum powder and paste prices are f.o.b. shipping point. Add 1c. per lb. for 100-lb. dm., 1½c. per lb. for 50-lb. dm., 3c. per lb. for 10-lb. can, and 5c. to 12c. per lb. for smaller containers. Deduct 1c. per lb. for single shipment of 400 to 1,499 lbs., 2c. for 1,500 to 4,999 lbs., 3c. for 5,000 to 29,999 lbs., and 4c. for 30,000 lbs. or more. Where destination is within the continental U. S., a deduction equivalent to the lowest available common carrier transportation rate will be made from seller's invoice on orders of 200 lbs. or over.

Resinate, precip., dms., frt. alld. lb. .24 - —
Stearate, dibasic, ctns., c.l. lb. .30 - —
l.c.l. lb. .31 - —
monobasic, ctns., c.l. lb. .30 - —
l.c.l. lb. .31 - —
tribasic, ctns., c.l. lb. .30 - —
l.c.l. lb. .31 - —
Sulphate, com'l, bgs., c.l., works, equald 100 lbs. 1.50 - —
l.c.l., same basis 100 lbs. 1.90 - —
iron-free, bgs., c.l., works, frt. equald 100 lbs. 2.75 - —
l.c.l., works 100 lbs. 3.15 - —
NF, gran., dms., works lb. .27 - .28
powd., dms., works lb. .32 - .33
Trihydrate, heavy (see Aluminum hydrate)
Ambergris, gray, bots oz. 8.50 -12.00
Aminoazotoluene, bbls lb. .97 - 1.03
Aminomethylpropanol, cns., dms., works lb. .65 - .69
Aminoethylethanolamine, dms., c.l., works lb. .42 - —
l.c.l., works lb. .42½ - —
tanks, works lb. .40 - —
Aminophylline, USP, bots., kgs lb. 6.00 - —
Aminopyrine, USP bots., dms lb. 6.00 - 6.15
Ammonia, anhydrous, fertilizer, tanks, works ton. 74.00 -75.00
pure, cyls., extra, zone 1 lb. .17 - .17½
2 lb. .19 - .19½
3 lb. .21 - .21½
4 lb. .16 - .19½
refrigeration, tanks, works ton. 76.50 -77.50
Aqua (29.4% $NH_3$), dms., c.l., works 100 lbs. 3.10 - —
l.c.l., works 100 lbs. 3.50 - —
tanks, works, anhyd. basis ton. 80.00 -81.00
Ammoniac gum (see Gum, ammoniac)
Sal, gray, bgs., c.l., works, frt. equald 100 lbs. 6.55 - —
l.c.l., same basis 100 lbs. 6.95 - —
white, gran., bgs., c.l., works 100 lbs. 4.60 - —
l.c.l., works 100 lbs. 6.25 - —
Ammoniacal liquor, tankcars, works, anhyd. basis ton. 75.00 -80.00

Ammonium acetate, purified, dms lb. .39 - .40
reagent, jars lb. .61 - .63
Benzoate, USP, dms., kgs., 4,000 lbs., frt. alld lb. .80 - —
smaller lots, frt. alld lb. .81 - 1.00
Biborate, bbls., c.l., works ton. 302.00 - —
ton lots, works ton. 355.50 - —
less ton lots, works ton. 360.50 - —
Bicarbonate, dms., works, c.l. lb. .05½ - —
l.c.l., works, dms lb. .06 - —
Bichromate, bbls., works lb. .31 - .36
Bifluoride, dms., dlvd lb. .18 .18½
Bromide, gran., NF, bbls lb. .36 .37
dms. lb. .37 .40
powdered ammonia bromide 10c. per lb. higher.
Carbonate, USP, lump, powd., dms. lb. .18½ - .22
Chloride, tech. (see Ammoniac, sal).
USP, gran., bbls., dms lb. .18 - .19
Citrate, dibasic, bbls lb. .75 - —
dms. lb. .80 .85
Fluoride (see Bifluoride).
Hydroxide (see Ammonia aqua).
Hypophosphite, NF, dms lb. 2.40 - —
Iodide, NF, jars lb. 3.79 - 3.91
Linoleate, plastic, 80% dms., works lb. 40½ - —
kgs., works lb. 42½ - —
25%, dms., frt. alld lb. .21½ - —
tech., bbls., works lb. .37 - —
dms., works lb. .39 - —
Molybdate, metal grade, kgs lb. .90 - —
chemical grade, bbls., kgs lb. .85 - —
tech. grade, bbls., kgs lb. .80 - —
Nitrate, fertilizer grade, Canadian, 32.5% N, bgs., c.l., shipping point ton. 57.50 - —
dom., bgs., western works ton. 58.00 - —
Nitrate-dolomite, 20.5% N, bgs., Hopewell, Va ton. 46.00 - —
Oleate, dms., precip lb. .23¼ - —

Ammonium oxalate, fine gran., dms. lb. .25 - .31
Pentaborate, gran., bbls., c.l., works ton. 212.00 - —
ton lots, works ton. 265.50 - —
less ton lots, works ton. 270.50 - —
Ammonia pentaborate powder, $10 per ton higher.
Perchlorate, kgs., works lb. .50 - .75
Persulphate, kgs lb. .25½ - .28¼
Phosphate, com'l, bgs., c.l., works, lb. .08 - —
l.c.l., works lb. .08½ - —
dibasic, NF V, bbls., dms lb. .40 - —
tech., bgs., c.l., works lb. .08 - —
l.c.l., works lb. .08½ - —
Salicylate, NF, dms., kgs lb. 1.25 1.28
Silicofluoride, dms., works lb. .12 .13
Sulphamate, bbls., dms., works lb. .18 .20
Sulphate, coke-oven, bulk, producing ovens ton. 45.00 -50.00
converters', bulk, works ton. 45.00 -50.50
Sulphide, liquid, 40-43% basis, 100%, dms., c.l., works. lb. .10½ - —
l.c.l., works lb. .15½ - —
tanks, dlvd. or frt. alld lb. .09 - —
Sulphocyanide, tech. (see Ammonium thiocyanate).
Thiocyanate tech., bbls., c.l., works lb. .15 - —
l.c.l., works lb. .16 .19
Thioglycollate, highly purified, 100% basis, cbys. lb. 1.70 2.25
commercial, same basis lb. 1.40 1.95
Thiosulphate, jars lb .32 .36
Amphetamine citrate, dextro, bots. lb. 36.00 - —
dextro-laevo, dms lb. 6.50 - —

Amphetamine hydrochloride, dextro, dibasic, bots lb. 36.00 - —
monobasic, bots lb. 34.00 - —
dextro-laevo, dms lb. 6.50 - —
Phosphate, dextro, dibasic, bots. lb. 36.00 - —
dextro-laevo, dibasic, dms lb. 6.50 - —
monobasic, dms lb. 6.00 - —
Sulphate, dextro, bots lb. 36.00 - —
dextro-laevo, dms lb. 6.50 - —
Amyl acetate, ex fusel oil, tech., dms., c.l., dlvd lb. .16½ - —
l.c.l., dlvd lb. .17½ - —
tanks, dlvd lb. .15 - —
ex pentane, dms., c.l., frt. alld. E. of Miss. R lb. .16 - —
l.c.l., same basis lb. .17 - —
tanks, same basis lb. .15 - —
Alcohol (see Alcohol, amyl).
Butyrate, dms lb. .90 1.00
Nitrite, USP, bots lb. 1.75 - 1.83
Salicylate, cns., dms lb. .76 - .81
Anethol, NF, cns., dms lb. 1.00 - 1.10
Angelica root, dom., bls lb. .65 - .70
imported, bls lb. .70 - .75
Angostura bark, bls lb. .44 - .49
Aniline oil, dms., c.l., works, frt. alld lb. .13 - —
l.c.l., works, frt. alld lb. .16 - —
tanks, works, frt. alld lb. .14 - —
Salt, dms., works lb. .28 - —
Anise, Argentine, bgs lb. No stocks.
Chinese, star lb. .15¾ - .16
Cyprus, bgs lb. .20 .20½
Mexican, bgs lb. .15¾ - .16
Syrian, bgs lb. .15 Nom.
Turkish, bgs lb. .13 - .15½
Anisic aldehyde, bots., dms lb. 2.10 -2.35

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and

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## Annatto Paste—Black Indian Hemp Root

| | | | |
|---|---|---|---|
| Annatto paste, bxs | lb. | .32 | .33 |
| Seed, bgs | lb. | .18 | .20 |
| Anthracene, 80-85%, bbls., works | lb. | .60 | .86 |
| 90%, bbls., works | lb. | .81 | 1.00 |
| Anthraquinone, 99.5%, bbls | lb | .85 | — |
| Antimony butter (see Antimony chloride). | | | |
| Chloride, solut., chys | lb | .29 | .30 |
| Metal, bulk, c.l., mines | lb. | .24½- | — |
| cases | lb. | .25 | - — |
| Oxide, ceramic grade, bgs., c.l., frt. alld | lb. | .23¾- | — |
| l.c.l., frt. alld | lb. | .24¾- | — |
| paint grade bgs., c.l., frt. alld | lb. | .23¾- | — |
| l.c.l., frt. alld | lb. | .24¾- | — |
| Salt, 65%, bgs., c.l., dlvd. E. of Miss | lb. | No stocks. | |
| Sulphide, 62-64%, bgs., frt. alld., dlvd | lb. | .20 | .23 |
| Antimony-potassium tartrate (see Tartar emetic). | | | |
| Antipyrene, USP, dms | lb | 2.35 | 2.45 |
| Apomorphine, USP, bots | oz. | 23.20 | 23.70 |
| Archil extract, bbls | lb | No stocks | |
| Areca nuts, powd., bbls | lb. | .15 | - .16 |
| Arecoline hydrobromide, NF, bots. | oz | 5.00 | 5.75 |
| Arginine hydrochloride, laevo, kilo. | | 70.00 | -80.00 |
| Argols, min. 50%, bgs., shipment ports, per 100 kilos (100% purity) | | 15.00 | 16.25 |
| Arnica, flowers, bls | lb. | .45 | - .75 |
| root, bls. | lb. | 1.45 | — |
| Arrowroot, powd., bgs | lb. | .12 | - .15 |
| Arsenic, metal, lump, bbls., prompt shipt | lb | .80 | .90 |
| Sulphide, yellow, bbls | lb | No stocks | |
| Trioxide, USP, dms | lb. | .40 | - .42 |
| White, powd. bbls., c.l., dlvd | lb. | .05½- | — |
| l.c.l., dlvd | lb. | .06¼- | .06¾ |
| Asafetida, cs | lb. | .32 | 35 |
| powd., bbls., dms | lb. | 50 | 53 |

| | | | |
|---|---|---|---|
| Asbestine (see Talc, fibrous, N. Y.). | | | |
| Asbestos, Canadian, crude, No. 1, c.l. (20 tons), mines | ton. | 940.00 | -960.00 |
| No. 2, c.l. (20 tons), mines | ton. | 485.00 | -492.00 |
| Run-of-mine, c.l. (20 tons), mines | ton. | 400.00 | - — |
| fiber, 3K, c.l. (20 tons), mines | ton. | 313.00 | - — |
| 3R, c.l. (20 tons), mines | ton. | 267.00 | - — |
| 3T, c.l. (20 tons), mines | ton. | 249.50 | - — |
| 3Z, c.l. (20 tons), mines | ton. | 231.00 | - — |
| 4K, c.l. (20 tons), mines | ton. | 124.00 | - — |
| 4M, c.l. (20 tons), mines | ton. | 124.00 | - — |
| 4T, c.l. (20 tons), mines | ton. | 111.50 | -141.00 |
| 4Z, c.l. (20 tons), mines | ton. | 111.50 | - — |
| 5D, c.l. (20 tons), mines | ton. | 88.00 | - — |
| 5K, c.l. (20 tons), mines | ton. | 88.00 | - — |
| 5M, c.l. (20 tons), mines | ton. | 84.00 | - — |
| 5R, c.l. (20 tons), mines | ton. | 78.50 | -79.00 |
| 6D, c.l. (30 tons), mines | ton. | 58.00 | -59.00 |
| 7D, c.l. 30 tons), mines | ton. | 52.00 | -52.50 |
| 7F, c.l. (30 tons), mines | ton. | 49.00 | -49.50 |
| 7H, c.l. (30 tons), mines | ton. | 41.50 | -42.00 |
| 7K, c.l. (30 tons), mines | ton. | 35.00 | -35.50 |
| 7M, c.l. (30 tons), mines | ton. | 30.50 | -31.00 |
| 7R, c.l. (30 tons), mines | ton. | 29.50 | -30.00 |
| 7T, c.l. (30 tons), mines | ton. | 28.00 | -28.50 |
| 7RF, c.l. (30 tons), mines | ton. | 30.50 | -31.00 |
| 7TF, c.l. (30 tons), mines | ton. | 30.50 | -31.00 |
| 8S, c.l. (30 tons), mines | ton. | 19.00 | -27.00 |

Prices quoted above are in U. S. funds. Add $4 per ton for l.c.l. lots.

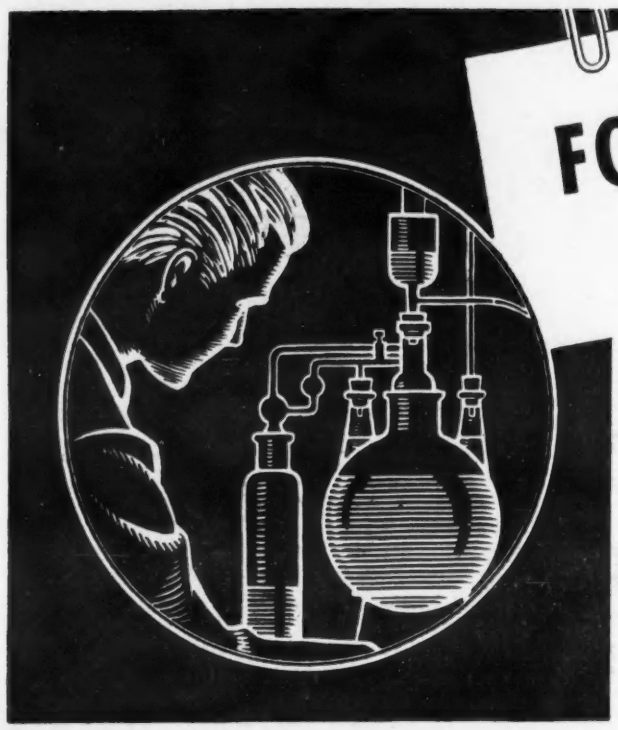
| | | | |
|---|---|---|---|
| Asphaltum, cut-back, tanks, tank wagon, refinery | gal. | .09 | - — |
| Emulsion, tanks, tank wagon, refinery | gal. | .09½- | .10 |
| Gilsonite, brilliant black, selects 270°-295° F. fusing pt., bgs., f.o.b. Colo. mines | ton. | 36.50 | - — |
| Asphaltum, gilsonite, brilliant, black, seconds, 300°-390° F. fusing point, not uniform, bgs., Colo. mines | ton. | 31.00 | - — |
| jet, bgs., ton lots, gross weight, Colo. mines | ton. | 36.50 | - — |
| Manjak, No. 10, crude, dms., works | lb. | .06½- | — |
| process form, bgs., works | lb. | .05¾- | .13 |
| Steam-rfd., less than 80 penetration,, tanks, tankwagon, refinery | ton. | 22.00 | - — |
| 80-300 penetration, tanks, tankwagon, refinery | ton. | 21.00 | — |
| Atropine, USP, bots | oz. | 10.50 | -11.50 |
| Sulphate, USP, bots | oz. | 6.75 | - 7.25 |

## B

| | | | |
|---|---|---|---|
| Bacitracin, wholesalers, unlabeled, topical, 2,000 units | vial. | .42 | - — |
| 10,000 units | vial. | .80 | - — |
| 50,000 units | vial. | 2.88 | - — |
| Balm of Gilead buds, dried, bgs | lb. | 1.40 | 1.50 |
| Barbasco root (see Cube root). | | | |
| Barberry, root bark, bgs | lb. | .60 | - .65 |
| tree bark, bgs | lb. | .53 | - .55 |
| Barbital, USP, dms | lb | 4.50 | - — |
| Sodium, USP, dms | lb. | 4.75 | - — |
| Barium carbonate, precip., bgs., 10 tons and up, works | ton. | 72.50 | -80.00 |
| smaller lots, works | ton. | 82.50 | -90.00 |
| Chlorate, kgs., works | lb. | .25½- | .31 |
| Chloride, NF, cryst., dms | lb. | .17 | - .18 |
| tech., bgs., c.l., works, frt. equald. | ton. | 90.00 | - — |
| l.c.l., works | ton. | 100.00 | - — |
| Chromate, bgs., frt. equald | lb. | 31½- | .32 |
| Dioxide, dms., c.l., works | lb. | .12 | - — |
| l.c.l., works | lb. | .12 | - — |
| Hydrate, crystals, bgs. | lb. | .09 | - .09½ |
| Hydroxide, anhyd., bbls., works | lb. | .19 | - — |
| Iodide, bots. | lb. | 5.12 | - — |
| Monoxide (see Oxide). | | | |
| Nitrate, bbls., c.l., works | lb. | .11½- | — |
| l.c.l., works | lb. | .13 | - — |
| Oxide, grd., dms., c.l., works | lb. | .11 | - — |
| l.c.l., works | ton. | 70.00 | - — |
| Peroxide (see Dioxide). | | | |
| Stearate, ctns., c.l. | lb. | .34 | - — |
| smaller lots | lb. | .35 | - .38 |
| Sulphate, tech. (see Barytes and Blanc fixe). | | | |
| X-ray, bbls | lb | .12½- | .13 |
| Sulphide, dms., c.l., works | ton. | 55.00 | - — |
| l.c.l., works | ton. | 70.00 | - — |
| Barium-potassium chromate, dms., c.l., frt. alld. | lb. | .20 | - — |
| l.c.l., works | lb. | .21 | - — |
| Baryte ore, approx. 94% $BaSO_4$, bulk, mines | ton. | 9.40 | -12.50 |
| Barytes, water-grd., paper bgs., c.l. St. Louis | ton. | 35.05 | - — |
| l.c.l., same basis | ton. | 36.85 | - — |
| ex whse., N. Y. | ton. | 49.65 | - — |
| Southern off-color, bgs., mines | ton. | 19.00 | - — |
| 95.75%, bgs., mines | ton. | 20.00 | - — |
| Bay leaves (see Laurel leaves). | | | |
| Belladonna leaf, bls | lb. | .65 | - 1.10 |
| Root, bls | lb. | .50 | - .52 |
| Bauxite, bulk, mines | ton. | 8.50 | -10.00 |
| Bentonite, 200 mesh, bgs., works | ton. | 11.00 | — |
| Benzaldehyde, NF, dms | lb. | .68 | - — |
| tech., cbys., dms | lb. | .45 | - — |
| Benzal chloride, cbys., works | lb | .19 | .25 |
| Benzene (see Benzol). | | | |
| Hexachloride, 99% gamma isomer (see Lindane). | | | |
| 12% gamma, tech., bgs., dms., c.l., works | lb. | .18 | - — |
| l.c.l., works | lb. | .20¼- | — |
| 6% gamma, 50% dust, dry, distributors, dms., c.l., dlvd | lb. | .12 | - — |
| l.c.l., dlvd | lb. | .13 | - — |
| wet, distributors, dms., c.l., dlvd | lb. | .15 | - — |
| l.c.l., dlvd | lb. | .16 | - — |
| Benzidine base, bbls | lb. | 1.02 | - — |
| Benzocaine, cns | lb. | 3.25 | - 3.35 |
| Benzol (benzene), pure, nitration, tanks, works, Lackawanna, N. Y., Sparrows Point, Md. | gal. | .23 | - — |
| Bethlehem, Pa., Birmingham, Ala., Chicago district, Cleveland district, Dangerfield, Tex., Johnstown, Pa., Minequa, Colo., Philadelphia, Pa.; Pittsburgh district, St. Louis, Mo.; Syracuse, N. Y., Terre Haute, Ind., Woodward, Ala., Wyandotte, Mich., Youngstown, Ohio | gal. | .22 | - — |
| Benzophenone, dms | lb. | 1.15 | 1.70 |
| Benzothiazyl disulfide, 50-lb. bgs., 150-lb. containers, works, frt. alld., ton lots | lb. | .35 | - — |
| less ton lots, same basis | lb. | .37 | — |
| Benzoyl chloride, cbys., dms., c.l., works, frt. eq | lb. | .20½ | .21 |
| l.c.l., same basis | lb. | .21½ | .22 |
| Peroxide, pure, 5lb ctns., works. | lb. | .90 | 1.05 |
| Benzyl acetate, f.f.c., dms. | lb. | .60 | 1.00 |
| Alcohol (see Alcohol, benzyl). | | | |
| Benzoate, USP, f.f.c., cns., dms | lb. | .80 | - — |
| Chloride, tech., cbys., c.l., works, frt. equald | lb. | .19 | .19½ |
| l.c.l., same basis | lb | .20 | .20½ |
| high grade, 2c. higher. | | | |
| Cinnamate, cns | lb. | 3.00 | 4.00 |
| Formate, cns | lb. | 1.60 | - 3.50 |
| Propionate, bots | lb. | 1.34 | - 2.30 |
| Salicylate, bots. | lb. | 1.55 | 2.25 |
| Benzylidinacetone, bots. | lb | 1.85 | 2.70 |
| Benzylisoeugenol, bots | lb | 8.90 | 9.00 |
| Berberine, bisulphate, cns | lb. | 45.75 | -48.00 |
| Hydrochloride, bots. | lb. | 45.75 | -48.00 |
| Sulphate, cns. | lb. | 45.75 | -48.00 |
| Berberis root, bls | lb. | .35 | .40 |
| Betagammapicoline, dms., c.l., works. | lb. | .21 | - .21½ |
| l.c.l., works | lb. | .21½- | .22 |
| Betamethylnapnthalene, m.p., 32°C., dms., works | lb. | 90 | — |
| Betanaphthol resublimed, dms., works. | lb. | 75 | - — |
| tech., bbls., c.l., works | lb. | .30 | - — |
| l.c.l., works | lb. | .32 | - — |
| Benzoate, fib. dms., works | lb. | 1.70 | - — |
| Salicylate, dms | lb. | 5.00 | - — |
| Betanaphthylamine, tech., bbls., works | lb. | .90 | - — |
| Betaphenylethylamine, dms., works, 1,000-lb. lots | lb. | 1.25 | - — |
| smaller lots | lb. | 1.60 | - — |
| Betapicolin, 90%-95%, dms., c.l., works | lb | 1.35 | - — |
| 98%, dms., c.l., works | lb. | 1.85 | - — |
| Beth root, bls. | lb | 45 | - .50 |
| Biotin, cryst. | gram. | 10.00 | - — |
| Bismuth chloride, jars | lb | 3.95 | - — |
| Citrate, USP VIII, jars | lb. | 3.27 | - — |
| Hydroxide, dms | lb | 4.18 | - — |
| Metal, bxs., ton lots | lb. | 2.00 | - — |
| Nitrate, cryst., dms | lb. | 1.85 | - — |
| Oxychloride, dms | lb. | 3.97 | - — |
| Oxide, anhydrous, dms | lb. | 4.60 | - — |
| Phenolsulphonate, fib. dms. | lb | 4.70 | - — |
| Subcarbonate, USP, dms | lb. | 2.80 | - — |
| Subgallate, NF, fib. dms | lb. | 2.75 | - — |
| Subiodide, fib. dms. | lb. | 4.90 | - — |
| Subnitrate, NF, dms | lb. | 2.30 | - — |
| Subsalicylate, USP, dms | lb. | 3.20 | - — |
| Bismuth-ammonium citrate, USP, powd., dms | lb. | 3.80 | — |
| Black, acetylene, bgs., c.l., works | lb. | .13½- | — |
| cs., l.c.l. shipt. point | lb. | .17 | .19 |
| Bone, bgs., bbls., l.c.l., dlvd | lb. | .14¾- | .22¾ |

Carload price ½c. per lb. less. Deliveries to the Pacific Coast, ex dock or whse., 1½c. per lb. higher

| | | | |
|---|---|---|---|
| Carbon, channel, beads, bulk, c.l., works | lb. | .0650- | — |
| bgs., c.l., works | lb. | .0690- | — |
| l.c.l., dlvd. or whse | lb. | .117 | .1175 |
| uncompressed, regular, bgs., c.l., works | lb. | .0832- | — |
| bgs., ctns., l.c.l., dlvd. or whse | lb. | .13¾- | — |
| furnace, fast extruding, bgs., c.l., works | lb. | .05¼- | — |
| ctns., l.c.l., whse | lb | .09½- | — |
| high modulus, bgs., c.l., works. | lb. | .05 | - — |
| ctns., l.c.l., whse | lb. | .09 | — |
| semi-reinforcing bgs., c.l., works | lb. | .03½- | — |
| ctns., l.c.l., whse | lb. | .07½- | — |
| very fine, bgs., c.l., works | lb. | .0740- | — |
| l.c.l., dlvd., or whse | lb. | .12 | - — |
| Charcoal (see C). | | | |
| Graphite (see G) | | | |
| Iron oxide, synthetic, bgs., c.l., works | lb. | .10¾- | — |
| l.c.l., works | lb. | .11 | - — |
| Lamp, bgs., c.l., works | lb. | .07 | - .30 |
| Mineral, bgs., works | lb. | .0160- | .0675 |
| Black ash (see Barium sulphide). | | | |
| Blackberry root, bls. | lb. | .11 | - .12 |
| bark of root, bls | lb. | .30 | - .32 |
| Black dyes (see Dyes). | | | |
| Black haw, root bark, bls | lb. | .70 | - .80 |
| Tree bark, bls | lb. | .28 | - .30 |
| Black Indian hemp root, bls | lb. | .45 | - .50 |

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**Sulfathiazole U.S.P.**
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N. Y. whse ..ton.105.00 - —
bbls., c.l., works ..ton.90.00 - —
l.c.l., works ..ton.95.00 - —
N. Y. whse. ..ton.113.00 - —
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Bleaching powder, dms., c.l., works, 100 lbs. 4.50 - —
l.c.l., works 100 lbs 5.00 - —
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high-grade, unground, 16-17% ammon., bulk, Chicago, unit-ton. 7.75 - —
soluble, bgs., c.l. ..lb. .16 - .17½
l.c.l. ..lb. .17½ - .22
Bloodroot, bls. ..lb. .38 - 40
Blue, alkali, dry, bbls., dlvd. N. of Tenn. and N.C., E. of Miss. R. including St. Paul, Minneapolis, Davenport, Rock Island, St. Louis lb. 1.90 - —
Toner, bbls., litho flushed, same basis lb. 1.05 - —
Celestial, bbls., same basis lb. .15 - .16
Chinese, bbls., same basis ..lb. .37 - .42
Cobalt, genuine, bbls., same basis. lb. 4.90 - —
imitation (see Blue, ultramarine).
Copper-phthalocyanine, full strength, bbls., same basis lb. 3.75 - 3.85
80%, bbls., same basis lb. 3.00 - 3.40
Iron (see Blue, Chinese, Milori, Potash, Prussian, and Soda).
Methyl violet toner, bbls., same basis lb. 4.20 - —
Milori, bbls., same basis ..lb. .37 - .42
Peacock, fugitive, 100% color strength, same basis lb 60 - .79
Permanent toner, green shade, molybdic, bbls., same basis lb. 3.75 - —
tungstic lb 4.00 - —
Potash, CP, bbls., same basis lb 51 - —
Prussian, bbls., same basis ..lb. .37 - .42
soluble, bbls., same basis ..lb. .37 - .42
Soda, CP bronze bbls., same basis lb 39 - —
Ultramarine, cobalt type, dry or pulp, bbls., same basis.lb. .25 - .26½
jobbing type dry bbls., same basis lb. .14 - —
regular types, dry or pulp, bbls., same basis lb. .19 - .29
Victoria toner, molybdic, bbls lb. 3.75 - —
Tungstic, bbls lb. 3.75 - —
Violet toner, molybdic, bbls., same basis lb. 1.24 - —
Tungstic, kgs., same basis lb 2.60 - 2.70

Blue dry colors, dlvd. prices ½c. higher Ala., Fla., Ga., La. (Shreveport, 1½c.), Miss., N. C., S. C., Tenn., Tex. (El Paso, 2c.), Cedar Rapids, Des Moines, Kansas City, Lincoln, Omaha, St. Joseph, 1.6c. higher, Pac. Coast, Denver, Pueblo, Salt Lake City, Wichita frt. equalized with Chicago.

Blue dyes are listed under Dyes.
Bluefag, root, bls. lb. .45 - .50
Bluestone (see Copper sulphate).
Blue vitriol (see Copper sulphate).
Boldo leaves, bls ..lb. .09 - .12
Bone, raw, bulk, Chicago ..ton.75.00 - —
junk, bulk, same basis ..ton.50.00 - 52.00
Meal, raw, 4½% ammon., 50% phos., bgs., E. works ..ton.62.50 - —
Chicago, works ton.65.00 - —
steamed, feeding grade, 1% ammon., 60% phos., E. works ..ton.65.00 - —
Chicago, works ton.65.00 - —
fertilizer grade, 3% ammon., 50% phos., bgs., E. works ton.65.00 - —
Chicago, works ton.65.00 - —
Phosphate, defluorinated (see D)
precipitated (see Calcium phosphate tribasic precip).
Boneset leaves, bls. ..lb. .16 - .18
Borage flowers, bls ..lb. .40 - 45
Borax, tech, anhydrous, bgs., c.l., works ton.70.50 - —
ton lots, ex whse. N. Y. or Chi ton.115.25 - —
less ton lots, same basis, ton.120.25 - —
bbls., c.l., works ..ton.90.50 - —
ton lots, ex whse, N. Y. or Chi ton.135.25 - —
less ton lots, same basis, ton.140.25 - —
bulk, c.l., works ..ton.64.00 - —
crystals, 99½%, bgs., c.l., works. ton.61.25 - —
ton lots, ex whse, N. Y. or Chi ton.106.00 - —
less ton lots, same basis, ton.111.00 - —
bbls., c.l., works ton.81.25 - —
ton lots, ex whse, N. Y. or Chi ton.126.00 - —
less ton lots, same basis, ton.131.00 - —
bulk, c.l., works ton.57.25 - —
granular, 99½%, bgs., c.l., works ton.35.25 - —
ton lots, ex whse, N. Y. or Chi ton 80.00 - —
less ton lots, same basis, ton.85.00 - —
bbls., c.l., works ..ton.55.25 - —
ton lots, ex whse, N. Y. or Chi ton.100.00 - —
less ton lots, same basis, ton.105.00 - —
bulk, c.l., works ton.51.25 - —
powdered, 99½%, bgs., c.l., works ton.40.25 - —
ton lots, ex whse, N. Y. or Chi ton.85.00 - —
less ton lots, same basis, ton.90.00 - —
bbls., c.l., works ..ton.60.25 - —
ton lots, ex whse, N. Y. or Chi ton.105.00 - —
less ton lots, same basis, ton.110.00 - —
bulk, c.l., works ton.36.25 - —

Borax packed in kgs. is $40 per ton higher than borax packed in paper bgs. USP borax $15 per ton higher than tech.

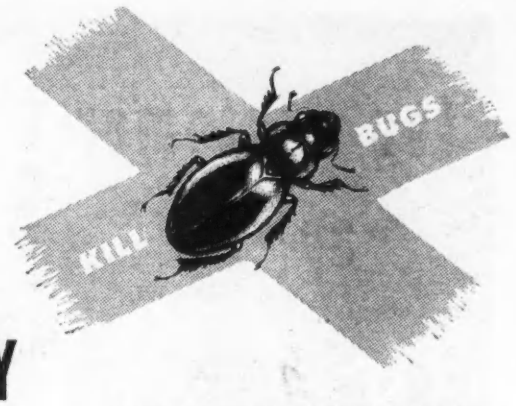
Bordeaux mixture, bgs., c.l., works, frt. alld. or nearest whse. point lb. .15 - .21
l.c.l., same basis ..lb. .16 - .23
Borneol, cns. ..lb. 2.75 - —
Bornyl thiocyanoacetate (see Isobornyl thiocyanoacetate).
Brazilwood extract (see Hypernic)
Brimstone (see Sulphur).
Bromine, purified, cs., c.l., frt. alld. E. of Rockies lb. .21 - —
1,000 lbs., same basis ..lb. .23 - —
single pkgs., same basis lb. .28 - —
dms., lead-lined, dlvd. ..lb. .21 - —
Bromoform, USP, bots ..lb. 1.50 - 1.70
cbys. ..lb. 1.42 - —
Bromstyrol, bots lb. 4.85 - 6.25
Bronze powder, aluminum (see A).
Gold, litho., cans, dms., works.lb. .50 - .60
moulding, cans, dms., works.lb. .80 - 1.00
printing ink, cans, dms., works lb. .95 - 1.10
radiator, cans, dms., works.lb. .60 - .65
Broomtop, bls. ..lb. .33 - .36
Brown, iron, synth., bgs., l.c.l., works lb. .12½ - —
Oxide, metallic, bgs., works lb. .03 - .03¼
Sap, crystals, works ..lb. .12 - —
powdered ..lb. .13 - —
Sienna, burnt, paper bags., c.l., works lb. .03¾ - .14¾
l.c.l., works lb. 04 - 15
raw, paper bgs., c.l., works lb 04 - 12½
l.c.l., works ..lb. .04¼ - 12¾
Umber, burnt, American, c.l., bbls., works lb. 04¾ - 05¾
l.c.l., bgs., works lb. 05 - 06¾
Turkey type, bgs., s.l., Boston, Bethlehem, Easton, Pa., Hiwassee Va N Y lb. 05¾ - 07¾
l.c.l., works lb. .06 - .08
raw, American, bgs., same basis. lb. 03¾ - 06
Turkey type, bgs. same basis lb 06 - 06¼
Vandyke, bbls., works ..lb. .11 - —
Brucine, cns., 100 ozs oz. 45 - —
Sulphate, NF, cns., 100 ozs ..oz. .35 - —
Bryonia root, bls ..lb. .29 - 35
Buchu leaves, bls ..lb. .60 - .65
Buckthorn bark, bls ..lb. .14 - 18
cut and sifted, bls ..lb. .23 - 25
Berries, bgs ..lb. .80 - .90
Burdock, root, bls lb 20 - 26
Butadiene, cyls., refinery ..lb. .19 - —
tanks, same basis ..lb. .08½ - .11½
Butane, indust., tanks, group 3 gal. .04 - —
Butternut bark, bls ..lb. .22 - .25
Butyl acetate, fermentation, normal, Ill., Ind., prod., dms., c.l., works, frt. alld lb. .13½ - —
l.c.l., same basis lb. .14½ - —
tanks, same basis lb. .12 - —
tankwagons, same basis.lb. 12½ - —
Butyl acetate, ferment., normal, other production, dms., c.l., same basis ..lb. .13½ - —
l.c.l., same basis ..lb. .14½ - —
tanks, same basis ..lb. .12 - —
synthetic, normal, dms., c.l., same basis ..lb. .13½ - —
l.c.l., same basis ..lb. .14½ - —
tanks, same basis ..lb. .12 - —
secondary, dms., c.l., same basis ..lb. .11 - —
l.c.l., same basis ..lb. .11½ - —
tanks, same basis ..lb. .09½ - —
Alcohol (see Alcohol butyl)
Aldehyde, dms., c.l., works ..lb. .17½ - —
l.c.l., works ..lb. .18½ - —
tanks, works ..lb 16 - —
Ether (see Ether, butyl)
Lactate, dms., c.l., frt. alld. E. of Rockies lb. .42½ - —
l.c.l., same basis ..lb. .43½ - —
tanks, same basis ..lb. .41 - —
Laurate, dms., works lb. 42 - —
Methacrylate, normal, dms., less than truckload, works ..lb. .60 - —
Oleate, reid., dms., l.c.l., works lb. 52 - —
Phenylacetate, dms ..lb. 2.00 - 2.25
Phthalate (see Dibutyl phthalate).
Stearate, dms., c.l., frt. alld. E. of Rockies lb. .27 - —
l.c.l., same basis ..lb. .28½ - —
Butyric ether (see Ethyl butyrate).

## C

Cacao butter (see Cocoa butter).
Cadmium bromide, reagent, jars lb. 2.64 - 2.65
Iodide, jars ..lb. 5.00 - 5.22



Cadmium lithopone (see Yellow).
Metal, ingots or sticks, cs., dlvd.lb. 2.00 - —
patent shapes, cs., dlvd ..lb. 2.15 - —
Selenide (see Red).
Sulphide (see Yellow).
Caffeine, natural, USP, cryst., dms., 100 lbs or more ..lb. 4.75 - —
anhydrous, dms., 100 lbs. or more lb 5.00 - —
Synthetic, USP, cryst., dms., 100 lbs. or more lb. 3.80 - —
anhydrous, dms. 100 lbs. or more lb. 4.00 - —
Citrated, USP, dms., 100 lbs. or more ..lb. 2.60 - —
Hydrobromide, bots ..lb. 6.70 Nom.
Calabar beans, bgs., futures ..lb. 65 - 66
Calamine, USP, dms ..lb. .27 - .29
Calamus root, dom., bgs ..lb. .27 - .30
imported, bleached, bls ..lb. .70 Nom.
peeled, bls ..lb. .30 - .31
Calciferol, cryst., vials, 10,000 or more standard units (1 standard unit=1,000,000 USP units), works gram. 4.00 - —
1,000 to 10,000 s.u., works gram. 4.40 - —
less than 1,000 s.u., works gram. 4.80 - —
in edible oil, dms., 10,000 or more, works unit. .10 - —
1,000 to 10,000 s.u., works unit .11 - —
less than 1,000 s.u., works unit .12 - —
Calcium acetate, bgs., dlvd 100 lbs. 3.00 - 4.00
Arsenate dealers dms., c.l., whse works, frt. alld. on 96 lbs. or over ..lb. .09½ - —
l.c.l., same basis ..lb. .10½ - .11¼
Bromide, NF, jars ..lb. 75 - 85
Carbide, standard generator size, dms., c.l., dlvd ton 121.00 - —
Carbonate (see Chalk and Whiting).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## Calcium Chloride—Charcoal

Calcium chloride, cryst., purified, bbls., jars lb. .28 - .30
flake, 77-80%, paper bgs., c.l., works, frt. equald ton 22.00 —
l.c.l., same basis ton 37.00 - 67.00
liquor, works, basis 40%, tank-cars ton 9.00 —
pellets, bgs., c.l. works ton 29.00 —
solid, 73-75%, dms., c.l., works, same basis ton 20.00 —
l.c.l. works, same basis ton 30.00 - 59.00
USP, gran., bbls lb .30 —
Chromate, bgs., frt. equald lb 29½ .30
Cyanide, dms., dlvd. E. of Rockies lb .30 .50
Gluconate, AA, bbls., dms lb. .65 - .72
USP, bbls., dms lb. .58 .65
Glycerophosphate, NF, fib. dms. lb 1.65 1.80
Hydride, dms., works lb .90 —
Hypochlorite, 100-lb. dms., dlvd. E. of Rockies dm. 24.00 - 28.50
cns., cased (45 lbs.) same basis. cs. 19.75 - 21.50
Hypophosphite, 50-lb. lots, dms. lb. .80 - .83
Iodide, jars lb. 4.10 - 4.12
Lactate, USP, dms lb. .37 - .44
Mandelate, USP, dms., works lb 2.10 2.25
Naphthenate, liq., 4% Ca, dms., frt. alld lb 23¾ —
Nitrate, tech., works lb .07 .09
Pantothenate, dextro, jars, 100 grams or more, frt. adjusted gram .07½- —
Phenolsulphonate, dms lb .64 .65
Phosphate, dibasic, USP bgs., c.l. 100 lbs. 6.75 —
l.c.l. 100 lbs. 7.10 7.45

Calcium phosphate, feed grade, bgs., 10 tons, works ton 105.00 - —
one ton or over, works ton 115.00 - —
less than one ton, works ton 125.00 —
monobasic, bgs., 10,000 lbs., works, frt. equald lb. .05¾- —
smaller lots, same oasis lb. .06¼ —
tribasic, bgs., c.l., works 100 lbs. 6.50 —
l.c.l., works 100 lbs. 6.95 7.30
Phytate, bgs., works lb. .28 - —
Resinate, precip., dms., frt. alld., works lb. 24 —
Silicate, hydrated, bgs., c.l., works lb. .05½- —
l.c.l., works lb 06 —
Stearate, precip., ctns., c.l., works. lb. 32 —
l.c.l., works lb 33 .34
Sulphate (see Gypsum).
Sulphide, 76%, bgs., c.l., works ton 45.00 —
70%, bgs., c.l., works ton 50.00 - —
luminous, tins, works lb 1.25 —
Calcium-strontium sulphide, phosphorescent, dms., works lb. 1.06 1.50
fine particle size, dms., works lb. 1.50 1.75
Calendula flowers, bls lb .50 .85
Calomel, USP, fine powd., dms. lb. 1.97 - 1.98
reg. powd., dms lb. 1.82 - —
Camphene, chlorinated, 67-69% (see Toxaphene).
Camphor, monobromated, NF, dms., kgs lb 3.10 3.20
natural, powd., 100-lb. lots lb. .45 - —
slabs, cs lb. .56 - —
tablets, cs lb. .74 - —

Camphor, synth., tech., bbls., 2,000 lbs. or more, whse lb. .42 - —
10 bbls. (1,500 lbs.) lb. .44¼- —
smaller lots lb. .45 - .55
USP, gran., powd., bbls., 2,000-lb. lots lb. .45 - —
1,000-lb. lots lb. .46 - —
smaller lots lb. .47 - —
Camphor, synth., USP, tablets, tins, 2,000-lb. lots lb. .73 - —
1,000-lb. lots lb. .74 - —
smaller lots lb. .75 - —
Canada balsam (see Fir balsam).
Canella alba bark, bls lb. .25 .30
Cantharides, Chinese, cs lb. 1.10 - 1.30
powd., bxs. lb. 1.25 - 1.50
Russian, bgs lb. 4.50 5.00
powd., bxs. lb. 5.75 6.00
Capsicum (see Pepper, red).
Oleoresin, NF VIII, cns lb. 5.25 - 6.50
Caramel coloring, NF, bbls gal. 1.02 1.20
Caraway seed, Dutch, bgs lb. .14¾- .15
Carbazole, 97% steel dms., ton lots, works lb. 1.75 - —
fib. dms., same basis lb. 1.70 - —
Carbinol, butyl, secondary, dms., l.c.l., works lb. 70 - —
Methylisobutyl, dms., c.l., frt. alld. E lb. .13 —
l.c.l., same basis lb. .13½- —
tanks, same basis lb. .11½- —
Carbon bisulphide, 50-gal. dms., c.l., works, frt. alld. to competitive points lb. .06¼- —
l.c.l., same basis lb. .07¼- —
5-gal. dms., c.l., same basis lb. .09½- —
l.c.l., same basis lb. .08¾- —
tankcars, same basis lb. .0440- —
Dioxide, cyls lb. .06 .08

Carbon tetrachloride, CP, dms., works lb. .09 - .11½
tech., dms., E. of Rockies, c.l., frt. alld lb. .08 - —
l.c.l., same basis lb. .08½- —
W. of Rockies, c.l., f.o.b. stock points lb. .08½- —
l.c.l., frt. alld. lb. .09 - —
NF, cbys lb. .17 - .19
Carboxymethylcellulose sodium—See CMC.
Carbromal, NF, dms., 100-lb. lots, works lb. 4.00 - 4.25
100-lb. lots, works lb. 4.10 - 4.75
Cardamom fruit, bleached, bold, cs. lb. 3.50 - 3.55
medium, cs. lb. 3.40 - 3.45
Coorges, cs. lb. 2.20 - 2.25
decorticated, Guatemalan, cs., lb. 3.25 - 3.30
Indian, cs. lb. No prices.
green, Alleppey, bgs., afloat lb. 2.15 - 2.20
Ceylon, bgs. lb. 2.15 - 2.20
seed (See Cardamom fruit, decorticated)
Carmine, No. 40, NF, bulk, 100 lbs. or more lb. 5.50 - —
smaller lots lb. 5.65 - 6.15
Carotene, crystals, research grade, ampuls, pure alpha or beta, 10 mg. 5.00 - —
90% beta-10% alpha, ampuls 100 mg. 2.00 - —
bulk, grain quantities gm. 5.00 - —
technical, 1,350,000 A units per gram gm. .67½- —
tins, works gm. .56 - —
dry powder, 3,330 A units per gram lb. 70 - —
emulsion (in milk), 500,000 A units per 16-oz. cn cn. 85 - —
in vegetable oil, 250,000 A units, per gram lb. 37.50 - —
50,000 A units per gram lb. 7.87 - —
26,000 A units per gram, tins, works milli. units. .22 - —
dms., works milli. units. .20 - —
3,330 A units per gram lb. .85 - —
microcrystalline, in oil, 400,000 A units per gram, tins, works milli. units. .44 - —
Carvol, bots lb. 10.00 - 16.00
Cascara sagrada bark, bulk lb. .23 - .30
Case-hardening mixture, 30% gran., dms., l.c.l., works lb. .10½- —
Casein, dom., acid-precip., standard, bgs., 10,000 lbs. or more, ship't point lb. .23¾- .24½
premium, bgs., 10,000 lbs. or more, ship't point lb. .24 - .25
rennet-precip., bgs., 10,000 lbs. or more, ex dock lb. .21¼- .21½
imp., acid-precip., ground, 100 bgs. or more, ex dock lb. .21 - .21½
Cashew nut liq., treated, dms., c.l., f.o.b. Newark, N. J. lb. .21 —
ton lots, same basis lb. .22¼- —
dm. lots, same basis lb. .24¼- —
Cassia bark, Batavia, longstick, bls., lb. .25 - .26
broken, bls. lb. .26 - .27
short stick, bls lb. .23 - .24
China, Canton, rolls, select, cs. lb. .12 - .12½
broken, bls lb. .11½- .12
Honan, rolls, scraped, bls lb. .15½- .16
broken, bls. lb. .14½- .15
unscraped, bls lb. .14 - .14½
broken, bls lb. .13½- .14
Yunnan, rolls, scraped, bls lb. .15½- .16
broken, bls. lb. .14½- .15
unscraped, bls lb. .14 - .14½
broken, bls lb. .13½- .14
Saigon, broken, bls lb. .26 - .27
medium, bls. lb. .36 - .37
thin, bls lb. .42 - .43
Buds, China, bgs lb. .30 - .35
Cassia fistula, bskts lb. .30 - .35
Castor beans, bgs., Brazilian ports long ton. 125.00 - —
Oil (see Oil, castor).
Pomace, bgs., c.l., works ton. 30.50 - —
Castoreum, natural, cns lb. 10.00 - 40.00
artificial, cns. lb. 9.00 - 9.25
Catechol, CP, cryst., fib. dms., works lb. 2.00 - —
resublimed, dms., works lb. 4.00 - —
Catnip, bls lb. .70 - .75
Celery seed, French, bgs lb. .30 - .31
Indian, bgs lb. .26 - .27
futures, bgs lb. .26½- .27
Celluloid scrap (see Pyroxylin scrap).
Cellulose acetate, flake, ctns., works, frt. alld. on 100 lbs. or more lb. .33 - .36
Cellulose acetate, molding composition, plain colors, translucent, metallic pearls, special black, dms., c.l., frt. alld. lb. .40 - —
l.c.l., same basis lb. .45 - .51
regular, black, dms., l.c.l., same basis lb. .31 - .39
variegations, dms., l.c.l., same basis lb. .50 - .59
molding and extrusion transparents, dms., c.l., same basis lb. .47 - —
l.c.l., same basis lb. .49 .54
extrusion compounds, translucent metallic pearls, special black, dms., c.l., same basis lb. .42 —
l.c.l. same basis lb. .44 .49
Acetate-butyrate, flake, 17% butyryl content, ctns., 500 lbs. or over, works lb. .52 - —
less than 500 lbs., works lb .53 - —
17.5% butyryl content, ctns., 500 lbs. or over, works lb. .48 - —
less than 500 lbs., works, lb. .49 - —
26.5% butyryl content, ctns., 500 lbs. and over, works lb. .50 - —
less than 500 lbs., works lb. .51 - —
37% butyryl content, ctns., 500 lbs. and over, works lb. .50 - .53
less than 500 lbs., works lb. .51 - .54
43% butyryl content, ctns., 500 lbs. and over, works lb. .53 - —
less than 500 lbs., works lb. .54 - —
molding composition, plain colors, pearls, transparents, special black, dms., l.c.l., frt. alld. lb. .56 .61
regular black, dms., l.c.l., same basis lb. .44 .48
variegations, dms., c.l., same basis lb. .61 - .66
Triacetate, flake, ctns., works, frt. alld. on 100 lbs. or more lb. .40 —
Cerium hydrate, dms., works lb. 1.25 —
Oxalate, NF, bbls., bgs., works lb. .70 .72
Oxide, optical grade, bgs., under 100 lbs., works lb. 2.25 —
kgs., 100-lb lots, works lb. 1.85 —
Chalk, precip., cosmetic, dentifrice, drugs, bgs., c.l., works lb. .02¾- .05½
l.c.l., ex whse lb. .04 —
paint, bgs., c.l., works ton. 40.00 —
papermakers, bgs., c.l., works. ton. 32.50 40.00
rubber makers, bgs., c.l., works ton. 30.00 —
Chamomile flowers, Hungarian, cs lb. .48 - .55
Roman, bls lb. .95 1.00
Charcoal, activated, USP, fib. dms., c.l., works lb. .25 .32
5-ton lots, works lb. .26½ .32½
smaller lots, works lb. .27 .50
Bone, NF, bbls lb. .23 —
Hardwood, briquets, bulk, c.l., works ton. 49.80 - —
bgs., c.l., works ton. 51.80 —
granular, bgs., incl., c.l., works. ton. 46.80 - 59.00


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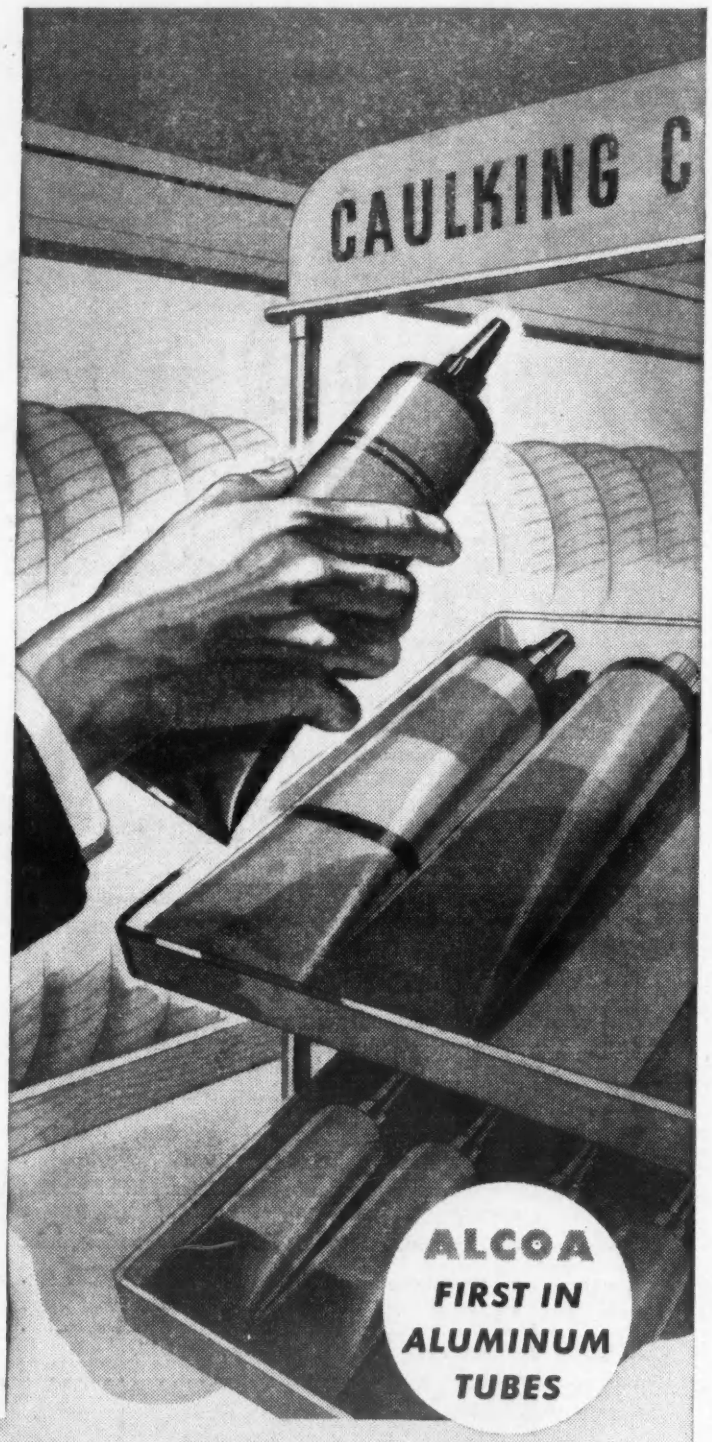
They're attractive. Made of aluminum, the metal that provides an ideal surface for eye-catching colors. They're strong. Protect the contents until the last drop is used. They're easy to use. Add up these advantages and you've customer appeal for your product—added sales for you.

Why not investigate these tubes today? Let us send you a copy of "Packaging in Alcoa Aluminum Tubes", our 24-page booklet on collapsible tubes. Gives information on weights, sizes, capacities, filling, etc. It's free.

*Write*

**ALUMINUM COMPANY OF AMERICA**
1753C Gulf Building
Pittsburgh 19, Pennsylvania

ALCOA ®




*NOZZLE-TYPE TUBE for:* greases, lubricants, caulking compounds and adhesives.

*BLIND-END TUBE for:* buffing and polishing compounds and paint pigments.

*CONVENTIONAL TUBE for:* many household and industrial items.

SIZES RANGE FROM ⅞" x 2½" TO 2¾" x 11¼" (QUART SIZE)

Charcoal, hardwood, lump, bulk, c.l., works ton. 38.80 -43.50
bgs., extra, returnable, c.l., works ton. 41.80 -45.50
Pinewood, gran., powd., ogs., c.l., works, South ton. 30.00 -40.00
l.c.l., works ton. 40.00 -50.00
lump bgs., c.l., works, South ton. 40.00 - —
bgs., l.c.l., works, South ton. 40.00 -50.00
bulk, c.l., works, South ton. 30.00 - —
Willow, powd., bbls lb. .06 .07
Chestnut extract, 25% tannin, bbls., c.l., works lb. .0438- —
l.c.l., works lb. .0465- —
tanks, works lb. .0370- —
powd., 65% tannin, bgs., extra, c.l., works lb. .1040- —
l.c.l., works lb. .1115- —
China clay, dom., dry-grd., air-float, 99.75% 300 mesh, bgs., c.l., works ton. 12.50 -13.00
l.c.l., works ton. 13.50- 14.00
bulk, c.l., works ton. 9.50 -10.00
200 mesh, bgs., c.l., works ton. 10.00 -12.00
l.c.l., works ton. 11.00 -16.00
wet-grd., silk-bolt, 99½%, 325 mesh, bulk, c.l., works ton. 13.00 - —
paper bgs., c.l., works. ton. 16.00 - —
imported, white lump, bulk, c.l., ex dock, Phila., Portland, Me. gross ton. 19.00 -40.00
powd., bgs., c.l., ex dock. net ton. 35.00 -45.00
l.c.l., ex whse net ton. 45.00 -60.00
Chloral, tech., 94% min., dms., l.c.l., works lb. .42 - —
Hydrate, USP, jars lb. 1.05 1.15
Chloramine T, NF, bbls., works lb. .75 - 1.00
Chlordane, agricultural, dms., l.c.l. stock points lb. .82 - 1.05
refined, dms., stock points lb. .97 - 1.20
Chlorinated paraffin, dms., works lb. .12¼ .13½
Rubber, standard, ctns., c.l., works lb. .42 - —
l.c.l., works lb. .43 - —
Chlorine, liquid, cyls., c.l., works lb. .07 .12
l.c.l., stock points lb. .09 - .19
tanks, single units, works, frt. equald 100 lbs. 2.40 - —
multiple units, 3 cars, works, frt. equald 100 lbs. 2.70 - —
2 cars, same basis 100 lbs. 3.30 - —
1 car, same basis 100 lbs. 3.90 - —
Chloroform, tech., dms., c.l., divd. E lb. .20 - —
l.c.l., same basis lb. .22 - —
tanks, same basis lb. .16 - —
USP, dms lb. .30 .33
Chloro(4)-2-Toluidine, bbls. lb. 1.38 - —
Chlorophyll, oil soluble, water soluble, cosmetic and pharmaceutical, bots lb. 4.00 4.50
Chloropicrin, com'l, bots lb. 1.40 - —
cyls., 180-lbs., frt. alld lb. .91 - —
100-lbs., same basis lb. .93 - —
25-lbs., same basis lb. 1.18 - —
Cholesterol, USP, fib. dms., 100-lb. lots lb. 8.50 - —
5-lb. pkg. lb. 9.00 - —
1-lb. pkg. lb. 9.50 - —
Choline chloride, fib. dms., frt. adjusted lb. 2.50 - 2.75
Dihydrogen citrate fib. dms., same basis lb. 2.50 - 2.75
Chromium acetate, powd., 72% Cr., bbls. works lb. No stocks
solut., 7½%, bbls., works lb. .08 - —
cbys. lb. .09¾- —
8½%, bbls., works lb. .08½- —
cbys. lb. .10¼- —
Fluoride, bbls., works lb. .44½- —
Green (see Green, chrome).
Oxide (see Green, chromium oxide).
Oleate, solid, bbls lb. .49 - —
Trioxide, USP, bots lb. .82 - —
Yellow (see Yellow, chrome).
Chrysarobin, USP bots lb. 7.65 9.24
Cinchona bark, NF, red, quill, 20-inch, cs lb. 1.26 Nom.
broken, bgs lb. .40 .45
yellow, broken, bgs lb. .32 - .35
Cinchonidine, small cryst., cns., 100 ozs oz. .71 - —
Sulphate, cns., 100 ozs. oz. .55 - —
Cinchonine, large cryst., cns., 100 ozs oz. .69 - —
small cryst., cns., 100 ozs oz. .65 - —
Sulphate, NF, cns., 100 ozs oz. .42 - —
Cinchophen, NF, heavy density, dms., frt. adjusted lb. 3.70 - 4.05
Standard density, dms., same basis lb. 3.50 - 3.85
Cinchophen-sodium, dms., frt. adjusted lb. 4.50 - 4.85
Cinnamic alcohol (see Alcohol, cinnamic)
Aldehyde, cbys., cns., dms lb. .90 - 1.20
Cinnamon, Ceylon, No. 2, bls lb. .19 - .20
Citral, bots., cns lb. 5.25 - 5.40
Citronellal, bots., dms lb. 2.50 2.75
Citronellol, bots., dms lb. 2.95 - 4.75
Civet, bots oz. 4.00 - 5.00
artificial, bots lb. 15.00 —
Clove, Madagascar, bls lb. .22 - .23
futures, bls. lb. .22½- .23
Zanzibar, bls. lb. .22 - .23
futures lb. .25 - .26
Clover tops, red, dom., bgs lb. .55 Nom.
imported, bgs. lb. No stocks
CMC, purified, high vis., ctns., 20,000 lbs. or over, works, frt. alld lb. .60 - —
smaller lots, same basis lb. .62 - .72
low and medium vis., ctns., 20,000 lbs. or over, works, frt. alld lb. .57 - —
smaller lots, same basis lb. .59 - .69
tech., low and medium vis., dms., c.l., works, frt. alld lb. .45 - —
l.c.l., works lb. .48 - —
Coaltar, coal-gas, water-gas, crude, resale, dms., c.l., ex-whse, gal. .23½- —
l.c.l., ex-wnse gal. .25 - —
tanks, ex-whse gal. .13½- —
refd., resale, bbls., c.l., ex-whse. gal. .24½- —
l.c.l., ex-whse gal. .26 - —
tanks, ex-whse gal. .14½- —
Cobalt acetate, bbls., dlvd lb. .93½- —
Carbonate, powd., bgs., works lb. 1.65 - —
feed grade, 49½% Co, kgs lb. 1.65 - —
Chloride, kgs., works lb. .91¼- —
feed grade, 24.5% Co, kgs lb. .91¼- —
Hydrate, bbls. lb. 2.13 - —
feed grade, 62% Co, kgs lb. 2.13 - —
Linoleate, paste, 6% Co, dms. lb. .57 - —
solid, 8½%, Co, dms lb. .66½- —
8% Co, dms lb. .62½- —
Metal, 97-99%, kgs., ex-whse lb. 1.80 - —
under 100 lbs., ex-whse lb. 1.82 - 1.87
Naphthenate, liq., 6% Co, dms. lb. .37¼- —
Nitrate, feed grade, 20.4% Co, bbls. lb. .78¾- —
Oxide, black, kgs lb. 1.38 - —
Phosphate, feed grade, 34%, Co, kgs lb. 1.31¼- —
Resinate, fused, 3% Co, dms lb. .22¾- —
Sulphate, bgs. lb. .68¼- —
feed grade, 21% Co, kgs lb. 1.05 - —
Cobalt salts, prices are on divd., basis
Cobalt-ammonium sulphate, 14% Co, kgs lb. .75 - —
Cocaine, USP, cns., 100-oz oz. 15.00 - —
Hydrochloride, cns., 100-oz. lots oz. 11.75 - —
Cochineal, gray, bgs lb. .67 - .68
silver, Teneriffe, bgs lb. .69 - .70
Cocillana bark, bgs lb. .16 - .17
Cocoa butter, bgs. lb. .46½- .49
Codeine, NF, cns., 100 ozs oz. 13.25 - —
Hydrochloride, cns., 100 ozs oz. 11.85 - —
Phosphate, USP, cns., 100 ozs. oz. 10.25 - —
Sulphate, USP, cns., 100 ozs. oz. 10.75 - —

Codliver oil (see Oil, codliver).
Cohosh, black, root, bls lb. .22 - .24
Blue, root, bls lb. .17 - .19
Colchicine, USP, bots., cns oz. 86.00 -96.00
Colchicum root, bls lb. .60 - .70
Seed, bgs. lb. 1.90 - 2.00
Collodion, USP, dms lb. .21 - —
Flexible, USP, dms lb. .22½- —
Colocynth, pulp bls lb. .30 .35
Colombo root, bls lb. .18 .23
Coltsfoot leaves, bgs lb. .30 .35
Condurango bark, bgs lb. .20 - .22
Copaiba balsam, cns., dms lb. .64 - .82
Copper acetate, cupric, bbls., works lb. .28 - —
smaller containers, works lb. .29 .30
Carbonate, 55%, bgs., works lb. .1860- .2575
Chloride, anhyd., bbls., works lb. .27½- —
crystals, bbls., works lb. .17¾- —
Citrate, USP, 5-lb. bots lb. 2.40 - —
Cyanide, tech., bbls lb. .46½- —
Gluconate, dms., cns lb. 3.00 - 3.24
Hydrate, dms., dlvd. E. Miss lb. .24¾- .25¼
Metal, electrolytic, dlvd lb. .18½- —
Naphthenate, liquid, 8% Cu, dms., frt. alld lb. .22¼ —
Nitrate, tech., cryst., bbls., works. lb. .22¼- —
Oleate, liquid, 8.5% Cu, bbls lb. .27 - —
solid, 10% Cu, bbls lb. .39 - —
Oxide, black, bbls., works lb. .25¼- .28¼
red, com'l, bbls., works lb. .26⅞- .30⅞
Oxychloride-sulphate, bgs., frt. alld lb. .24¼ .27¼
Quinolate, fib. dms. lb. 3.50 - —
Resinate, precip., dms., frt. alld. lb. .23½- —
Stearate, bgs., works lb. .39½- —
Sulphate, cryst., 99%, bgs., c.l., works 100 lbs. 7.00 - 7.25
l.c.l. 100 lbs. 7.25 - 8.25
CP, cryst., gran., dms., works lb. .12¾- —
monohydrated, 35%, dms., c.l., dlvd 100 lbs. 11.90 -13.00

Copper sulphate, tribasic, dealers, bgs., c.l., works lb. .1815- .2245
l.c.l., works lb. .2050- .2345
USP, gran., cryst., dms lb. .12¾- .26
Copperas, cryst., gran., bgs., c.i., works ton. 17.00 - —
l.c.l., works 100 lbs. 1.55 2.00
bbls., c.l., works ton. 20.00 - —
bulk, c.l., works ton. 14.00 - —
Copra, c.i.f., Atlantic, Gulf ports ton. 200.00 - —
Pacific ports ton. 195.00 - —
Coriander seed, Argentine, bgs lb. .07 - .07½
Italian, bgs lb. .07 Nom.
Moroccan, bgs. lb. .10¼- .10½
Corn sugar, tanners, chipped, paper bgs., c.l., 60,000 lbs. min. 100 lbs. 5.69 - —
bbls., c.l., same basis 100 lbs. 5.75 - —
Syrup, 42°, bbls., c.l 100 lbs. 5.97 - —
l.c.l. 100 lbs. 6.12 - —
Cornsilk, bls lb. .15 - .19
Corrosive sublimate, NF, cryst., dms., 50 lbs. or more lb. 1.60 - —
gran., powd., dms., 50 lbs. or more lb. 1.53 - —
Cottonroot bark, bls lb. .25 - .30
Cottonseed hull ash, 32-36% potash, bgs., dlvd., unit-ton. 1.75 - —
Meal, 41% protein, bulk, Memphis ton. 58.00 - —
Coumarin, cns., 25 lb lb. 2.75 - —
smaller lots lb. 2.80 - 2.90
powd., cans lb. 3.00 - 3.05
Cramp bark, NF, bls lb. .80 Nom.
Cranesbill root, bls lb. .28 .30
Cream of tartar, dom., NF, gran. or powd., bbls., 5,000 lbs. one ship lb. .27½- —
smaller lots lb. .28 - .29
Imported, kgs. lb. 22 - .24

Charcoal, Hardwood, Lump—Cumin Seed

Creosote, coaltar, crude, tanks, works, frt. equald gal. .14 - .18
refined, dms., c.l., works gal. .36½- .40
l.c.l., same basis gal. .37½- .47
tanks, same basis gal. .23½- .25
solution, 85%, tanks, works gal. .20 - —
NF, beechwood, bots, cbys lb. 1.15 - 1.25
hardwood, bots, cbys lb. .85 - —
Pinewood, dms gal. .31 - .33
Carbonate, NF, bots., cbys lb. 2.35 2.40
Cresols, tech., dry, above 207°C, non-ret. dms., c.l. frt. equald. lb. .1130- .1250
l.c.l., same basis lb. .1160- .1285
ret. dms., c.l., same basis. lb. .1225- —
l.c.l. same basis lb. .1255- —
tanks, same basis lb. .10 - .1125
USP, non-ret., dms., c.l., same basis lb. .1180- —
l.c.l., same basis lb. .1210- —
ret. dms., c.l., same basis lb. .1250- —
l.c.l., same basis lb. .1280- —
tanks, same basis lb. .1050- .1150
Crotonaldehyde, 91-93%, dms., c.) works lb. .16½- —
l.c.l., works lb. .17 - .20
Cryolite, nat., dealers, bgs., c.l., works 100 lbs. 13.75 - —
bbls., l.c.l., works 100 lbs. 14.00 - —
Cube root, powd., 5% rotenone, bgs., ton lots, works lb. .26 - —
Cubeb berries, XX NF bgs lb. .35 - .45
powd., cs. lb. .44 - .54
Culvers root, bbls lb. .50 .60
Cumene, dms., c.l. lb. .08 - —
l.c.l. lb. .09 - —
tanks gal. .53 .56
Cumin seed, Morocco, bgs lb. .16½- .17
Iranian, bgs. lb. .16¼- .16¾
Syrian, bgs. lb. .17 - .17½


IF YOU NEED A POWERFUL OXIDIZING AGENT

...Mathieson

NaClO2

130% AVAILABLE CHLORINE

ADVANTAGES:

- Bleaches cellulosic fibers without attacking and degrading the fibers.
- Extremely soluble in water.
- Non-hygroscopic, dry crystalline material.
- Very stable — even up to and including 150° C.

USES:

- Bleaching of paper pulp—wood, rag, flax. Textiles—cotton, linen, viscose and acetate rayon, nylon. Straw, hemp, flour, wood, shellac, varnish and other products.
- Kiering of cotton.
- Simultaneous scouring and bleaching of rayon.
- Manufacture of starch.
- Reagent for certain organic oxidation reactions.
- Generation of chlorine dioxide.

Available from Mathieson are Sodium Chlorite Technical for general use; Textone®, designed especially for textile processing; C2®, for paper pulp processing; and Analytical Sodium Chlorite (153% available chlorine) for use as a laboratory reagent. The commercial grades are packed in 100 pound drums, the analytical grade in 1 and 2 pound bottles. Write today for further information. Mathieson Chemical Corporation, Mathieson Building, Baltimore 3, Maryland.

Mathieson CHEMICALS

SERVING INDUSTRY, AGRICULTURE AND PUBLIC HEALTH

9119

## Cutch, Extract—Diphenylamine

Cutch, extract, 55% tannin, bgs., ex dock lb. .07 - —
Cyanamide, fertilizer mixing grades, 20.6% N, gran., bulk, Niagara Falls, Ont., contracts, bulk ton.46.50 - —
pulv., 21% N., bgs., same basis unit-ton. 2.55 - —
Cyclohexane, tech., dms., c.l., works. lb. .10½- .11⅛
l.c.l., works lb. .11 - .12
tanks, works lb. .09¼- .10
Cyclohexanol, tech., dms., c.l., works. lb 21½ —
l.c.l., works lb .22 - —
tanks, works lb .20 —
Cyclohexanone, tech., dms., c.l., works lb 26½- .30
l.c.l., works lb .27 .31
tanks, works lb .25 .29
Cyclohexylamine, dms., works lb. .34 —
Cyclohexylamine, dms., c.l., works. lb. .34 - —
l.c.l., works lb. .35 - —
tanks, works lb. .33 - —
Cyclopropane, USP, 2 lb. cyls. works. cyl.40.00 —
6 oz. cyls., works cyl.10.50 —
Hospitals, cyls., 40 gal. lots gal. .32 —
100-gal. lots gal. .31 - —
200-gal. lots gal. .30 —

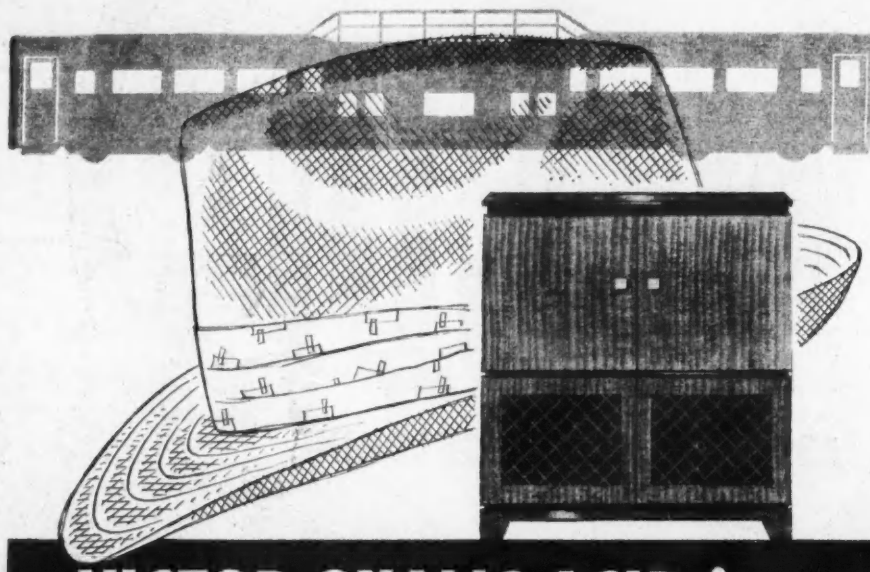
## D

2, 4-D, bbls., c.l., works, frt. equald lb. .43 - .48
l.c.l., same basis lb. .48 - .60
Isopropyl ester, dms., c.l., works lb. .54 - —
l.c.l., works lb. .59 - .66
Damiana leaves, bls lb. .40 .45
Dandelion root, bls lb. .40 - .45
DDD, tech., fine grd., fib., dms., c.l., works lb. .51 —
l.c.l., works lb. .51⅛- —
lump, fib. dms., c.l., works lb. .49 - —
l.c.l., works lb 49⅛ —
DDT, fiber dms., c.l., works lb. .28 - .32
smaller lots, works lb. .29 - .33
Decanol, normal, tech., dms., c.l., dlvd lb. .34½ —
l.c.l., dlvd. lb. .36½ —
tanks, dlvd. lb .32 —
Deertongue leaves, bls lb. .30 .35
Defluorinated phosphate, 65% b.p.l., paper bgs., works ton 44.15 55.75
Rock, 14½%P, paper bgs., works ton.45.00 —
Degras, common, bbls lb. .10½- .12
Neutral, less 2% ffa., bbls lb. .22 .23
over 2% ffa., bbls lb. .21 .22
Derris root, 5% rotenone, powd lb. .42 - —
Desoxyephedrine hydrochloride-dl, dms lb. 7.50 - —
dextro, dms lb.30.00 - —
Dextrin, corn, British gum, paper bgs., c.l. 100 lbs. 7.20 —
Chicago 100 lbs. 6.55 —
l.c.l. 100 lbs 7.35 —
canary, paper bgs., c.l. 100 lbs. 6.94 —
Chicago 100 lbs 6.29 —
l.c.l. 100 lbs. 7.09 —
dark, paper bgs., c.l. 100 lbs. 7.84 —
Chicago 100 lbs. 6.39 —
l.c.l. 100 lbs. 7.19 —
white, paper bgs., c.l. 100 lbs. 6.79 —
Chicago 100 lbs. 6.14 —
l.c.l. 100 lbs. 6.94 —

Corn dextrin in cotton bgs. 12c. to 15c. per 100 lbs. higher.

Potato, bgs lb .06½- .10
Tapioca, pure, envelope, bgs lb. .15 - .16
Dextrose, USP, dms lb. .17¾- —
Diacetone (see Alcohol, diacetone).
Diacetyl, flavor grade, bots lb ▼.60 5.55
laboratory grade, bots 100 grams 4.50 —
tech., bots., works lb. 3.00 —
Diamyl ether (see Ether, amyl).
Phthalate, dms., c.l., dlvd. E lb. .35½- —
l.c.l., dlvd. E lb. .36½- —
tanks, dlvd. E lb. .34 —
Dianisidin, dms lb. 1.65 —
Diatomaceous earth, dom., bgs., c.l., Atlantic coast ton.50.00 -52.00
California ton.38.00 -40.00
l.c.l., ex whse ton.30.00 —
purified, bgs., c.l., Atl. coast ton.62.00 - —
California ton.50.00 - —
l.c.l., ex whse ton.90.00 - —
imported, Algerian, bgs., c.l., Atlantic coast ton. No prices,
Mexican, white, bgs., c.l., Atlantic coast lb. .03 - —
l.c.l., Atlantic coast lb. .06 - —
Dibenzyl sebacate, dms., c.l., works. lb. .66½- —
l.c.l., works lb. .67 - —
tanks, works lb. 65 —
Dibutoxyethyl sebacate, dms., c.l., works lb. .55⅛- —
l.c.l. works lb. .56 - —
tanks, works lb. .54 - —
Dibutyl phthalate, dms., c.l. dlvd lb. .30½- —
l.c.l., dlvd lb. .31½- —
tanks, dlvd lb. .29 - —
Sebacate, dms., c.l., works lb. .51 - —
l.c.l., works lb. .51½- —
tanks, works lb. .49½- —
Tartrate, dms., works, frt. alld lb. .62 - —
Dibutylamine, dms., c.l., frt. alld lb. .51½- .52⅛
l.c.l., frt. alld lb. .52½- .53⅛
tanks, frt. alld lb. 49 .50
Dicapryl pnthalate, dms., c.l., dlvd. lb. .38½- —
l.c.l., dlvd lb. .39½- —
tanks, dlvd lb. .37 - —
Sebacate, dms., c.l., works lb. .54½- —
l.c.l., works lb .55 - —
tanks, works lb. .53 —
Dichloroaniiin, dms., works lb. 75 80
Dichlorodiphenyldichloroethane (see DDD).
Dichlorodiphenyltrichloroetnane (see DDT).
Dichloroethyl ether (see Ether, dichloroethyl).
Dichloropentanes, dms., c.l., works. lb. .047 - —
l.c.l., works lb .055 - —
tanks, works lb. .04 - —
Dichlorophenol, dms., c.l., frt. equald lb. .27 - —
l.c.l., frt. equald lb. .28 - —
Dicyclohexylamine, dms., c.l., works lb. .37¼- —
l.c.l., works lb. .38 - —
tanks, works lb. .36 - —
Dicyclohexylphthalate, fib. dms., c.l., works lb. .42½- —
l.c.l., same basis lb. .43½- —
Diethanolamine, dms., c.l., b lb. .25½- —
l.c.l., same basis lb. .27½- —
tanks, same basis lb .25 —
Diethyl carbonate, dms., c.l., frt. alld lb. .36½- —
l.c.l., same basis lb. .37½- —
tanks, same basis lb .35 —
Maleate, dms., c.l., dlvd lb. .45 —
l.c.l., dlvd lb. .49 .52⅛
tanks, dlvd lb. .43½- —
Oxalate, dms., c.l., frt. alld lb. .34½- .35⅛
l.c.l., same basis lb. .35⅛ .36⅛
tanks, same basis lb. .34 —
Phthalate, dms., c.l., dlvd lb .26 27⅛
l.c.l., dlvd lb. .27 .28
tanks, dlvd lb .24½ .26
Sulphate, dms., c.l., works lb. .16 —
l.c.l., works lb. .16½- —
tanks, works lb. .14½- —
Diethylamine, dms., c.l., frt. alld lb. .37 - —
l.c.l., works lb. .37½- —
tanks, works lb. .35½- —
Diethylaniiin, dms. lb. .49 —
Diethyleneglycol, dms., c.l., frt. alld. E lb. .17¼- —
l.c.l., same basis lb. .18½- —
tanks, same basis lb. .16 - —
Boriborate, dms., l.c.l. lb. .28 - —
Diethylether, dms., l.c.l., works. lb. .40 - —
Monobutylether, dms., c.l., works lb. .26 —
l.c.l., works lb. .26½- —
tanks, works lb. .24½- —
Monobutylether acetate, dms., c.l., works lb. .27½- —
l.c.l., works lb. .29 - —
Monoethylether, dms., c.l., works. lb. .18 - —
l.c.l., works lb. .18½- —
tanks, works lb. .16½- —
Monoethylether, acetate, dms., c.l., works lb. .24 - —
l.c.l., works lb. .24¼- —
Monomethylether, dms., c.l., works lb. .22 - —
l.c.l., works lb. .22½- —
tanks, works lb. .20½- —
Diethylenetriamine, dms., c.l., works. lb. .42 - —
l.c.l., works lb. .42½- —
tanks, works lb. .40 - —
Diethylethanolamine, dms., c.l., works lb. .61½- —
l.c.l., same basis lb. .62½- —
tanks, same basis lb. .60 - —
Diethylstilbestrol, USP, bots kilo.240.00 -275.00
Digitalin, cryst., bots gram.15.00 -18.00
powd., bots oz.25.00 -30.00
Digitalis leaves, dms lb. .85 - 1.25
Digitoxin, USP, bots gram.12.50 -15.00
Diglycol, laurate, dms lb. .30 - .32
Oleate, dms lb. .25 - .27
Stearate, dms lb. .25 - .26
Dihexyl sebacate, dms., c.l., works, lb. .42½- —
l.c.l., works lb. .43 - —
tanks, works lb. .41 - —
Dihydrostreptomycin hydrochloride and sulphate, hospitals, vials. gram. .60 - —
wholesalers, vials gram. .48 - —
Dihydroxydichlorodiphenylmethane, dms lb. .95 1.00
smaller containers lb. 1.05 - 1.40
Di-isobutyl ketone, dms., c.l. dlvd. lb. .14 - —
l.c.l., dlvd lb. .14½- —
tanks, dlvd lb. .12½- —
Di-isobutylene, dms., c.l., works lb. .07 - —
l.c.l., works lb. .07½- —
tanks, works lb. .05½- —
Di-isooctyl phthalate, dms., c.l., dlvd. lb. .41½- —
l.c.l., same basis lb. .42 - .42½
tanks, same basis lb. .40 - —
Dillseed, natural, bgs lb. .10½- .11
dewhiskered, bgs. lb. .12 - .12½
Dimethyl phthalate, dms., c.l., dlvd. lb. .26½- —
l.c.l., dlvd lb .27 - —
tanks, dlvd lb. .25 - —
Sebacate, dms., c.l., works lb. 69½- —
l.c.l., works lb. .70 - —
tanks, works lb. .68 - —
Sulphate, 55-gal. ret., dms., c.l., works lb. .15 - —
l.c.l., works lb. .16 - —
10-gal. ret. dms., works lb. .16½ —
Dimethylamine, 25%-40%, dms., c.l., works, basis 100% lb. .37 .38
l.c.l., works, basis 100% lb. .38 .38½
tanks, works, basis 100% lb. .33 —
Dimethylaniiin, dms., c.l. lb. .23 - —
l.c.l. lb. .25 - —
tanks lb. .21 - —
Dimethylethanolamine, dms., c.l., dlvd lb. 1.43 - —
l.c.l., dlvd. lb. 1.45 - —
tanks, dlvd. lb. 1.40 - —
Dinitroaniiin, dms., frt. equald lb. 50 —
Dinitrobenzene, crude, bbls lb. .16 —
Dinitrochlorobenzene, 48° C m.p., dms., c.l. lb. .13½- .14⅛
l.c.l. lb. .14 - .15
tanks lb. .13¼- .14⅛
Dinitrophenol, bbls. lb. .28 —
Dinitrotoluene, oily, dms lb. .07 .09
refd., dms. lb. .21 —
Dinonylnapnthalene, c.l., dms., works lb. .13 —
l.c.l., dms., works lb. .14 —
tanks, works lb. .12 —
Dioctyl phthalate, dms., c.l., frt. alld lb. .41½- —
l.c.l., frt. alld lb. .42 - .42½
tanks, frt. alld lb. .40 - —
Diorthotolylguanidin, dms., ton lots, dlvd lb. .48 - —
smaller lots, dlvd lb. .50 - —
Dioxan, dms., c.l., frt. alld lb. .25 - —
l.c.l., same basis lb. .25½- —
tanks, same basis lb. .23½- —
Dip oil (see Tar acid oil).
Dipentaerythritol, bgs., l.c.l., works lb. .34 - —
Dipentene, dest.-dist., dms. incl., c.l., works, South gal. .35 - .53
l.c.l., same basis gal. .36 - .55
N. Y. whse gal. .46 - —
tanks, works, South gal. .20 - —
steam-dist., dms., c.l., works, South gal. .36 - —
l.c.l., works, South gal. .46 - —
dlvd. N. Y. gal. .52 - —
Diphenyl, bbls., c.l., works lb. .15 - —
l.c.l., works lb. .16 - .20
Oxide, perfume grade, cns., dms. lb. .43 - .52
Diphenylamine, bbls lb 26 —


from RAIL CAR CLEANING...
TO STRAW AND WOOD BLEACHING



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The versatility and popularity of oxalic acid are indicated by its wide range of uses. Today, Victor oxalic acid is employed in:

- Leather Processing
- Cleaning Railroad Cars
- Radiator Cleaning Compounds
- Laundry Sour, for Neutralizing Alkali, Discharging Bleach, and Removing Iron Stains
- Bleaching Straw, Wood, Cotton Linters
- Removing Rust Stains from Marble
- Purifying Rosin
- Manufacture of Metal Polishes
- Manufacture of Candles, Varnish, Paper, Textiles

Victor oxalic acid is a brilliant, transparent, colorless, crystalline material. It is a strong acid in convenient, dry form. Typical quality: Assay (min.) 99.8%, $(COOH)_2 \cdot 2H_2O$, $SO_3$ (max.) 0.05%. Solubility: 12.5 parts in 100 parts water at 25°C. Available in barrels or fiber drums.

*Write for technical data and experimental sample.*

VICTOR CHEMICAL WORKS

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**VICTOR CHEMICALS FOR INDUSTRY**

Aluminum Formate
Aluminum Phosphates
Monoammonium Phosphate
Diammonium Phosphate
Monocalcium Phosphates
Hicalcium Phosphate
Dicalcium Phosphate
Tricalcium Phosphate
Ferric Orthophosphate
Sodium Iron Pyrophosphate
Ferrosphosphorus
Formic Acid
Oxalic Acid
Phosphoric Acids
Carbamide Phosphoric Acid
Phosphoric Anhydride
Phosphorus
Phosphorus Oxychloride
Phosphorus Trichloride
Potassium Phosphates
Hemisodium Phosphate
Monosodium Phosphate
Disodium Phosphates
Trisodium Phosphate
Tetrasodium Pyrophosphate
Sodium Tripolyphosphate
Sodium Acid Pyrophosphate
Sodium Formate
Sodium Oxalate
Stabilizers
Tetraethyl Pyrobase
Wetting Agents

**INDUSTRIAL USES OF VICTOR CHEMICALS**

Baking Powders
Bread—Yeast
Ceramics—Glass
Evaporated Milk
Cookies—Crackers
Cosmetics
Denture Cleaners
Detergents
Dyeing
Flameproofing
Food Enrichment
Insecticides
Laundering
Leather Tanning
Metals and Alloys
Metal Cleaning
Metal Plating
Nutrient Solutions
Oil Drilling Muds
Organic Chemical Mfr.
Paint—Varnish
Petroleum Refining
Pharmaceuticals
Phosphated Flour
Plastics
Prepared Flour Mixes
Process Cheese
Pulp and Paper
Pyrotechnics—Munitions
Rustproofing
Salt
Self-Rising Flours
Soaps
Soft Drinks
Sugar
Textile Processing
Tooth Powder & Paste
Water Proofing
Water Treatment

| | | | | |
|---|---|---|---|---|
| Diphenylguanidin, dms., ton lots | lb. | .39 | - | — |
| smaller lots | lb. | .40 | - | — |
| Diphenylhydantoin-sodium, USP, dms. | lb. | 3.50 | | 3.75 |
| Dipropyleneglycol, dms., c.l., frt. alld | lb. | .14½ | - | — |
| t.c.l., same basis | lb. | .15½ | - | — |
| tanks, same basis | lb. | .13 | - | — |
| Dipropyleneglycol methylether, dms., c.l., frt. equald | lb. | .18 | - | — |
| t.c.l., same basis | lb. | .18½ | - | — |
| tanks, same basis | lb. | .16½ | - | — |
| Ditertiarybutylmetacresol, dms., c.l., works | lb. | .32 | - | — |
| t.c.l., works | lb. | .33 | - | — |
| tanks, works | lb. | .31 | - | — |
| Ditertiarybutylparacresol, dms., c.l., works | lb. | .91 | - | — |
| t.c.l., works | lb | .95 | - | — |
| Divi-divi, 43% tannin, bgs., bls., c.l., U. S. ports, ex dock | ton | 68.00 | - | — |
| Divinylbenzene, 18%, dms., c.l., works | lb. | .25 | - | — |
| t.c.l., works | lb. | .26 | - | — |
| tanks, works | lb. | .24 | - | — |
| 40%, dms., c.l., works | lb. | .55 | - | — |
| t.c.l. works | lb | .60 | | .65 |
| Dodecylotoluene, dms., c.l., works | lb. | .14 | - | — |
| t.c.l., works | lb. | .15 | - | — |
| tanks, works | lb | .13 | - | — |
| Doggrass root, dom., cut, bls | lb. | .20 | | .24 |
| imp., NF, cut, bls | lb. | .25 | | .30 |
| Dogwood bark, Jamaica | lb. | .10 | | .14 |
| Dragon's blood, drops, cs | lb. | .45 | | .47 |
| mass, cs | lb. | .90 | - | 1.00 |
| reeds, cs | lb. | 1.75 | | 2.00 |
| **Dyes, coaltar, certified colors for food, drugs and cosmetics, 5 lb. and 1-lb. lots, dlvd.:—** | | | | |
| Blue, FD&C, No. 1, cns. | lb. | 17.00 | | 17.60 |
| No. 2, cns. | lb. | 17.00 | | 17.60 |
| Green, FD&C, No. 1, cns. | lb. | 17.00 | | 17.60 |
| No. 2, cns. | lb. | 22.20 | | 22.85 |
| No. 3, cns | lb. | 35.25 | | 35.90 |
| Orange, FD&C, No. 1, cns. | lb. | 3.65 | | 3.75 |
| No. 2, cns. | lb. | 4.55 | | 4.75 |
| Red, FD&C, No. 1, cns. | lb. | 7.55 | | 7.85 |
| No. 2, cns. | lb. | 4.00 | | 4.10 |
| No. 3, cns. | lb. | 22.20 | | 22.85 |
| No. 4, cns. | lb. | 7.20 | | 7.50 |
| No. 32, cns. | lb | 5.30 | | 5.40 |
| Yellow, FD&C, No. 1, cns. | lb. | 10.50 | | 11.05 |
| No. 3, cns. | lb. | 3.30 | | 3.40 |
| No. 4, cns. | lb. | 3.30 | | 3.40 |
| No. 5, cns. | lb. | 4.00 | | 4.10 |
| No. 6, cns. | lb. | 4.00 | | 4.10 |
| **Dyes, coaltar, certified colors for drugs and cosmetics, 1-lb. lots, works, 25-50 lb. lots, dlvd:—** | | | | |
| Black, D&C, No. 1, cns. | lb. | 10.95 | - | — |
| Blue, D&C, No. 4, cns. | lb. | 13.55 | - | — |
| Brown, D&C, No. 1, cns. | lb. | 16.10 | - | — |
| Green, D&C, No. 5, cns. | lb. | 16.10 | - | — |
| No. 6, cns. | lb. | 16.10 | - | — |
| No. 7, cns. | lb. | 14.80 | - | — |
| Orange, D&C, No. 3, cns. | lb. | 10.95 | - | — |
| No. 4, cns. | lb. | 20.05 | - | — |
| No. 5, cns. | lb. | 5.70 | - | — |
| No. 10, cns. | lb. | 20.70 | - | — |
| Red, D&C, No. 8, cns. | lb. | 3.75 | - | — |
| No. 9, cns. | lb. | 3.75 | - | — |
| No. 10, cns. | lb. | 3.00 | - | — |
| No. 11, cns. | lb. | 2.25 | - | — |
| No. 12, cns. | lb. | 3.00 | - | — |
| No. 17, cns. | lb. | 10.95 | - | — |
| No. 18, cns. | lb. | 24.00 | - | — |
| No. 19, cns. | lb. | 20.05 | - | — |
| No. 21, cns. | lb. | 4.70 | - | — |
| No. 22, cns. | lb. | 10.95 | - | — |
| No. 28, cns. | lb. | 24.65 | - | — |
| No. 33, cns. | lb. | 17.45 | - | — |
| Violet, D&C, No. 1, cns. | lb. | 16.10 | - | — |
| No. 2, cns. | lb. | 16.10 | - | — |
| Yellow, D&C, No. 7, cns. | lb. | 10.95 | - | — |
| No. 8, cns. | lb. | 10.95 | - | — |
| No. 10, cns. | lb. | 13.50 | - | — |
| No. 11, cns. | lb. | 13.50 | - | — |
| No. 22, cns. | lb. | 9.15 | - | — |
| No. 33, cns. | lb. | 14.65 | - | — |
| No. 37, cns. | lb. | 13.55 | - | — |
| **Dyes, coaltar, certified colors for drugs and cosmetics, external use, 1-lb. lots, works, 25-50 lb. lots, dlvd:—** | | | | |
| Blue, Ext. D&C, No. 1, cns. | lb. | 16.10 | - | — |
| Green, Ext. D&C, No. 1, cns. | lb. | 16.10 | - | — |
| Red, Ext. D&C, No. 1, cns. | lb. | 13.50 | - | — |
| Yellow, Ext. D&C, No. 1, cns. | lb. | 10.95 | - | — |
| **Dyes, coaltar, for general use in cloth dyeing (numbers are those of the Colour Index scale or prototype):** | | | | |
| 20 Chrysodine G. | lb. | .59 | - | — |
| 27 Orange G. | lb. | .71 | - | — |
| 31 Amido naphthol red G. | lb. | .59 | | — |
| 36 Alizarine yellow 2G | lb. | .76 | - | — |
| 40 Alizarine yellow R | lb. | .97 | - | — |
| 57 Amido naphthol red 6B | lb. | .90 | - | — |
| 79 Ponceau R | lb. | .68 | - | — |
| 151 Orange II | lb. | .44 | - | — |
| 165 Red lake C | lb. | 1.05 | - | — |
| 179 Azo rubine | lb. | .95 | - | — |
| 176 Red lake A | lb. | .80 | - | — |
| 180 Diamond blue 3B | lb. | .84 | - | — |
| 185 Cochineal red A | lb. | .85 | - | — |
| 202 Chrome blue black R | lb. | .62 | - | — |
| 203 Chrome black T | lb. | .72 | - | — |
| 208 Sulphon acid blue R | lb. | .83 | - | — |
| 216 Acid alizarin red B | lb. | .77 | - | — |
| 234 Resorcin brown | lb. | .82 | - | — |
| 246 Naphthol blue black | lb. | .78 | - | — |
| 278 Benzo fast red SBL | lb. | 2.74 | - | — |
| 289 Sulphon cyanine 5R extra | lb. | 1.00 | - | — |
| 299 Diamond black F | lb. | 1.78 | - | — |
| 304 Nerol 2B | lb. | 1.84 | - | — |
| 326 Benzo fast orange S | lb. | 1.45 | - | — |
| 332 Bismarck brown R | lb. | .78 | - | — |
| 365 Chrysophenine | lb. | 2.14 | - | — |
| 382 Diamine black BH | lb. | 1.51 | - | — |
| 401 Diamine black BH | lb. | .58 | - | — |
| 406 Benzo blue 2B conc | lb. | .98 | - | — |
| 419 Diamine fast red F | lb. | 1.05 | - | — |
| 420 Diamine brown M | lb. | .82 | - | — |
| 448 Benzo purpurine 4B | lb. | 1.08 | - | — |
| 518 Diamine sky blue FF | lb. | 1.48 | - | — |
| 561 Trisulphon brown B | lb. | 1.78 | - | — |
| 581 Direct deep black EW extra | lb. | .81 | - | — |
| 593 Diamine green B | lb. | .60 | - | — |
| 598 Congo brown G | lb. | 1.20 | - | — |
| 620 Sun yellow | lb. | .84 | - | — |
| 639 Xylene light yellow | lb. | 1.77 | - | — |
| 640 Tartrazine | lb. | 1.34 | - | — |
| 655 Auramine | lb. | 1.69 | - | — |
| 657 Malachite green | lb. | 1.93 | - | — |
| 662 Brilliant green | lb. | 2.55 | - | — |
| 667 Brilliant milling green B | lb. | 3.27 | - | — |
| 671 Glaucine | lb. | 1.54 | - | — |
| 680 Methyl violet B | lb. | .95 | - | — |
| 684 Crystal violet | lb. | 1.91 | - | — |
| 698 Formyl violet S4B | lb. | 1.51 | - | — |
| 720 Chrome azurol B | lb. | 3.60 | - | — |
| 729 Victoria blue B | lb. | 2.48 | - | 2.68 |
| 737 Wool green S | lb. | 2.14 | - | — |
| 749 Rhodamine B | lb. | 3.85 | - | — |
| 814 Chloramine yellow | lb. | 2.76 | - | — |
| 841 Safranine | lb. | 2.58 | - | — |
| 865 Nigrosine WSJ 78 | lb. | .56 | - | — |
| 922 Methylene blue GXX | lb. | 1.28 | - | — |
| 969 Hydron blue R | lb. | .72 | - | — |
| 978 Sulphur black T extra | lb. | .28½ | - | — |
| 1027 Alizarin VI | lb. | .64 | - | — |
| 1034 Alizarin red S | lb. | 2.30 | - | — |
| 1054 Alizarin saphiro B | lb. | 2.59 | - | — |
| 1078 Alizarin cyanine green | lb. | 2.61 | - | — |
| 1085 Alizarin blue black B | lb. | 2.13 | - | — |
| 1086 Indanthrene golden orange G, single paste | lb. | 1.96 | - | — |
| double paste | lb. | 3.92 | - | — |
| 1099 Indanthrene dark blue BO, single paste | lb. | 1.72 | - | — |
| 1101 Caledon jade green | lb. | 2.32 | - | — |
| 1105 Indanthrene blue RS, double paste | lb. | 2.52 | - | — |
| 1113 Indanthrene blue GCD, double paste | lb. | 1.72 | - | — |
| 1150 Indanthrene olive R, single paste | lb. | 1.06 | - | — |
| **Dyes, coaltar, for stains, water-soluble, 100-lb. dms., sell ers' works.** | | | | |
| Black, acid blue, B, extra | lb. | .76 | - | — |
| Orange, acid, Y, conc | lb. | .43 | - | — |
| Rhodamine, azo- R, extra, conc. | | | | |
| Rhodamine, R, extra, conc | lb. | 3.07 | - | — |
| Scarlet, croceine, MOO | lb. | 1.33 | - | — |
| Yellow, azo-, conc | lb. | .32 | - | — |
| Fast light, 3 G, extra | lb. | 1.99 | - | — |
| Methanil, conc | lb. | .83 | - | — |
| **Oil-soluble, spirit-soluble, water-soluble dyes in kegs, 3c. higher; tins, 10c. higher.** | | | | |

## E

| | | | | |
|---|---|---|---|---|
| Echinacea root, bls | lb. | .45 | - | .55 |
| Egg albumen (see Albumen). | | | | |
| Yolk, dried, dom., bbls | lb. | 1.10 | - | 1.13 |
| tanners, bbls | lb. | .06½ | | .07 |
| Elder flowers, bright, bls | lb. | .40 | | .50 |
| Elecampane root, bls | lb. | .22 | | .25 |
| Elm bark, grinding, bls | lb. | .30 | | .35 |
| powd., bbls., bxs | lb. | .40 | | .45 |
| select, bndls | lb. | .55 | | .60 |
| Emetine hydrochloride, USP, bots | oz. | 38.75 | | 42.00 |
| Ephedra herb, bls | lb. | .25 | - | .32 |
| Ephedrine, synthetic, USP, anhydrous, bots., 100 ozs | oz. | .96 | - | — |
| hydrous, bots., 100 ozs | oz. | .92 | - | — |
| Hydrochloride, tin, 100 ozs | oz. | .75 | - | — |
| Sulphate, cryst., tins, 100 ozs. | oz. | .72 | - | — |
| powd., tins, 100 ozs | oz. | .73 | - | — |
| Epichlorohydrin, dms., c.l., works | lb. | .36½ | - | — |
| t.c.l., works | lb. | .37 | - | — |
| tanks, works | lb. | .35 | - | — |



| | | | | |
|---|---|---|---|---|
| Epinephrine, synth., USP, bots gram. | | .45 | - | .50 |
| Epsom salt, tech., bgs., c.l., works, 100 lbs. | | 2.15 | | — |
| t.c.l., works | 100 lbs. | 2.90 | - | 3.15 |
| USP, cryst., bgs., c.l., works, 100 lbs. | | 2.35 | - | — |
| t.c.l., 5,000 lbs., 1 withdrawal | 100 lbs. | 3.10 | - | — |
| smaller lots | 100 lbs. | 3.35 | - | — |
| Ergot, NF, dms., tin-lined | lb. | 4.50 | | Nom. |
| Eserine, bots. | oz. | 45.00 | | 50.00 |
| Salicylate, USP, bots | oz. | 36.00 | | 40.00 |
| Sulphate, bots. | oz | 35.00 | | 36.00 |
| Ether, acetate (see Ethyl acetate). | | | | |
| Butyl, dms., c.l., dlvd | lb. | .30½ | - | — |
| t.c.l., dlvd | lb. | .31 | - | — |
| tanks, dlvd | lb. | .29 | - | — |
| Butyric (see Ethyl butyrate). | | | | |
| Dichloroethyl, purif., dms., works. | lb. | .16½ | - | — |
| t.c.l., same basis | lb. | .17 | - | — |
| tanks, same basis | lb. | .15 | - | — |
| Divinyl, USP, anesthesia, bots., 50 cc, hospitals | bot. | 1.00 | - | — |
| 75 cc, hospitals | bot. | 1.56 | - | — |
| Ethyl, absolute, ACS, dms | lb. | .80 | - | — |
| anesthesia, USP, hospital, cns. | lb. | 75 | | .90 |
| Industrial, USP, dms., c.l., dlvd. | lb. | .10½ | - | — |
| t.c.l., same basis | lb. | .12½ | - | — |
| tanks, same basis | lb. | .08½ | - | — |
| synthetic, dms., incl., dlvd. East | lb. | .10½ | - | — |
| t.c.l., same basis | lb. | .12½ | - | — |
| tanks, same basis | lb. | .08½ | - | — |
| Isopropyl, dms., c.l., dlvd | lb. | .06 | - | — |
| t.c.l., dlvd | lb. | .06½ | - | — |
| tanks, dlvd | lb. | .04½ | - | — |
| Nitrous, conc., bots., 100 lbs. | lb. | 1.03 | | 1.10 |


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ORONITE CHEMICAL COMPANY

producers of basic chemicals
for manufacturers and processors

*A major source of supply for—*

DETERGENT D-40
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POLYBUTENES
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NAPHTHENIC ACIDS

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PHTHALIC ANHYDRIDE
GAS ODORANTS
WETTING AGENTS
QUATERNARY COMPOUND ATM-50
ORTHO, META, PARA XYLENE

XYLOL
BENZOL
LUBE OIL ADDITIVES
ALIPHATIC ACID
HYDROFORMER CATALYST
DIBUTYL PHTHALATE

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## Ethyl Acetate—Glycerin, Dynamite

| | | | |
|---|---|---|---|
| Ethyl acetate, natural, fermentation, 85-88%, dms., c.l. frt. alld. | lb | 10½ | — |
| t.c.l., frt. alld | lb. | .11½ | — |
| tanks, frt. alld | lb | .09 | — |
| 95-98%, dms., c.l., frt. alld. | lb. | .10¾ | — |
| t.c.l., frt. alld | lb. | .11¾ | — |
| tanks, frt. alld | lb | 09¼ | — |
| 99%, dms., c.l., frt. alld. | lb | .11 | — |
| t.c.l., frt. alld | lb | 12 | — |
| tanks, frt. alld | lb | .09½ | — |
| synthetic, 85-90%, dms., c.l., frt. alld | lb. | .10½ | — |
| t.c.l., frt. alld | lb | 11½ | — |
| tanks, frt. alld | lb | .09 | — |
| 95-96%, dms. c.l., frt. alld. | lb | 10¾ | — |
| t.c.l., frt. alld | lb | 11¾ | — |
| tanks, frt. alld | lb | 09¼ | — |
| 99%, dms., c.l., frt. alld | lb | 11 | — |
| t.c.l., frt. alld | lb | 12 | — |
| tanks, frt. alld | lb | 09 | — |
| Acetoacetate, dms., c.l., dlvd | lb | .47½ | — |
| t.c.l., dlvd | lb | 48½ | — |
| tanks, dlvd | lb | 46 | — |
| Acrylate, dms., c.l., and truckload, works | lb. | .49 | — |
| less than truckload, works. | lb. | .49½ | — |
| tanks, works | lb. | .48 | — |
| Benzoate, dms | lb | 68 | — |
| Betaethoxypropionate dms works | lb | 70 | — |
| Bromide, tech., 98%, dms | lb | .39 | 41 |
| Butyrate, bots. | gal | 4.75 | — |
| cns., works | lb | 65 | 70 |
| dms., works | lb | 60 | — |
| Carbamate (see Urethane) | | | |
| Chloride, tech., tanks frt. alld. East | lb | 13½ | — |
| USP, bbls. cyl | lb | 20 | 22 |
| Cinnamate cns | lb | 2.30 | 3.60 |
| Formate, dms. | lb | .35 | — |
| Iodide, bots. | lb | 4.06 | 4.27 |
| Lactate, dms., works | lb. | .41 | — |
| Methacrylate, dms., c.l. and truckload, works | lb. | .50 | — |
| less than truckload, works | lb. | .50½ | .60 |
| Nitrite (see Ether, nitrous). | | | |
| Oenanthate, dms | lb | 1.00 | 2.00 |
| Oleate, dms., t.c.l., works | lb | .53 | — |
| Oxalate (see Diethyl oxalate). | | | |
| Silicate, dist (see Tetraethylorthosilicate). | | | |
| 40% available $SiO_2$, dms., works | lb | .55 | — |
| Ethylalphanaphthylamine dms | lb | 80 | — |
| Ethylaniline dms | lb | 60 | — |
| Ethylbenzene, dms., c.l | lb | 14 | — |
| t.c.l. | lb | 15 | — |
| tanks | lb | 13 | — |
| Ethylcellulose, 6b dms., 5,000 lbs., works | lb | 52 | — |
| smaller lots, works | lb | 54 | 69 |
| Ethylene dichloride, dms., c.l., works, frt alld. E. of Rockies | lb | 09½ | — |
| W of Rockies | lb. | 10½ | — |
| t.c.l., works, frt. alld., E. of Rockies | lb | 10½ | — |
| W of Rockies | lb | 11½ | — |
| tanks, frt. alld., E. Rockies | lb | .08 | — |
| W of Rockies | lb | 09 | — |
| Oxide, cyls., c.l., works | lb | 23¾ | — |
| t.c.l., works | lb | 24¾ | — |
| tanks, frt. alld., East | lb | 16¾ | — |
| Trichloride (see Trichloroethane) | | | |
| Ethylenediamine, dms., c.l., works. | lb | 42 | — |
| t.c.l., works | lb | 42½ | — |
| tanks, works | lb | 40 | — |
| Ethyleneglycol, dms., c.l., frt. alld. E | lb | 16 | — |
| t.c.l., same oasis | lb | 17 | — |
| tanks, same basis | lb | 14½ | — |
| Diethylether, dms., t.c.l. works | lb | 50 | — |
| Ethyleneglycol monobutylether, dms., c.l., works | lb. | .21½ | — |
| t.c.l., works | lb. | .22 | — |
| tanks, works | lb. | .20 | — |
| Monoethylether, dms., c.l., works. | lb. | .18 | — |
| t.c.l., works | lb. | 18½ | — |
| tanks, works | lb. | .16½ | — |
| Monoethylether acetate, dms., c.l., works | lb. | .16½ | — |
| t.c.l., works | lb. | .17 | — |
| tanks, works | lb. | .15 | — |
| Monomethylether, dms., c.l., works | lb. | .19½ | — |
| t.c.l., works | lb. | .20 | — |
| tanks, works | lb. | .18 | — |
| Monomethylether acetate, dms., c.l., works | lb. | .24½ | — |
| t.c.l., works | lb. | .25 | — |
| tanks, works | lb. | .23 | — |
| Monostearate, dms. | lb. | .33 | — |
| Ethylethanolamines mixed, dms., c.l., works | lb. | .32 | — |
| t.c.l., works | lb. | .33 | — |
| Ethylmorphine hydrochloride, USP, bots | oz. | 11.85 | — |
| Ethylorthotoluidine, bbls | lb | .80 | — |
| Ethylvanillin, cns., 3 lbs. or more | lb | 6.75 | — |
| smaller lots | lb | 6.80 | 6.90 |
| Eucalyptol, USP, cns., dms | lb | 1.25 | 2.05 |
| Eucalyptus leaves, bls | lb | .10 | 14 |
| Eugenol, prime, USP | lb. | 2.05 | 2.75 |
| Euphorbia, pu., nero. ols | lb. | .18 | .20 |

## F

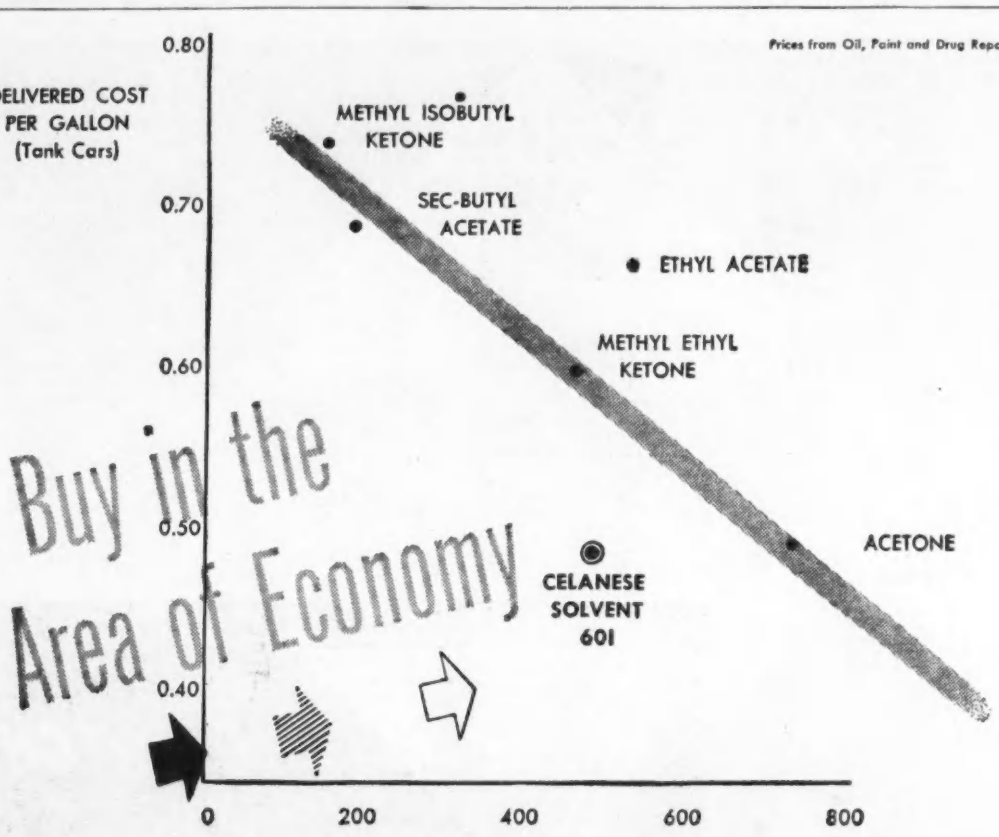
| | | | |
|---|---|---|---|
| Feldspar, enamel, 100 mesh, bgs., works | ton. | 20.00 | 22.00 |
| Glass, 20 mesh, bulk, tons, works | ton. | 11.75 | 12.50 |
| Pottery, bgs., 2 ton lots, works. | ton. | 20.00 | 22.00 |
| bulk, c.l., works | ton. | 18.00 | 20.00 |
| Fennel seed, Argentine, bgs | lb. | .16 | Nom. |
| French, bgs | lb. | .12 | Nom. |
| Indian, bgs. | lb. | .12 | .12½ |
| Fenugreek, domestic, bgs. | lb. | No stocks. | |
| Indian, bgs | lb. | .11 | .11½ |
| futures, bgs | lb. | .11 | .11½ |
| Moroccan, bgs | lb. | .07 | .07¼ |
| Syrian, bgs. | lb. | .07 | .07½ |
| Ferric-ammonium citrate (see iron ammonium citrate). | | | |
| Ferric cacodylate (see iron cacodylate). | | | |
| Ferric glycerophosphate (see iron glycerophosphate). | | | |
| Ferric hypophosphite (see iron hypophosphite). | | | |
| Ferric sulphate (see iron sulphate, ferric) | | | |
| Film scrap, colored, cs., works | lb. | .11½ | — |
| water-white, cs., works | lb. | .13½ | — |
| Fir balsam, Canada, cns | gal. | 32.50 | 33.00 |
| Oregon, bbls | gal. | 2.35 | 2.60 |
| Fishberries, bgs | lb | 20 | .25 |
| Fishliver oil (see Oil, fishliver) | | | |
| Fishmeal, ground, 60% protein, bgs., Balto, area | ton. | 160.00 | — |
| Fishscrap, dried, 60% protein, bulk, Balto area | ton. | 150.00 | — |
| Fleaseed (see Psyllium seed) | | | |
| Fringetree bark, bls | lb | 42 | 45 |
| Fluorspar, acid grade, bgs., c.l. mines | ton. | 47.50 | — |
| t.c.l., mines | ton. | 49.50 | — |
| bulk, contract, c.l., mines | ton. | 42.00 | — |
| noncontract, c.l., mines | ton. | 45.00 | — |
| t.c.l., mines | ton | 47.00 | — |
| ceramic grade, No. 1, ground, 90-92% $CaF_2$, bulk, c.l., mines net | ton. | 39.00 | 41.00 |
| powd., 90-92% | ton. | 41.00 | — |
| foundry grade, lump 85-60%, | ton. | 34.00 | — |
| washed, gravel, 70% or more, $CaF_2$, bulk, c.l., mines | ton. | 35.00 | 37.00 |
| 65% bulk, c.l., mines | ton. | 34.00 | 36.00 |
| 60% bulk, c.l., mines | ton. | 33.00 | 35.00 |
| less than 60% bulk, c.l., mines. | ton. | 32.00 | 34.00 |
| Formaldehyde, USP (inhibited), dms., c.l., E. works | lb. | 0570 | — |
| t.c.l., E. works | lb. | 0620 | — |
| tanks, E. works | lb. | 0370 | — |
| methanol-free (uninhibited), tanks, works | lb. | 0350 | — |

Tankcar and tankwagon prices above are on a delivered basis in New England, Eastern New York, N. J., Eastern Penna., and part of Delaware. In states other than Eastern Seaboard, as well as W. of Rockies, prices f.o.b. Texas plants, are 022 for inhibited and 020 for uninhibited

| | | | |
|---|---|---|---|
| Fuller's earth dom., powd., bgs., c.l., Fla., Ga mines | ton. | 30.00 | — |
| Tex., mines | ton. | 27.00 | — |
| spent, bulk, Bayonne | ton | 2.00 | 4.00 |
| imported, bgs., c.l. | ton. | 30.00 | 40.00 |
| Furfural, tech. dms., c.l., works | lb | 12 | — |
| t.c.l., works | lb. | 14 | — |
| tanks, works | lb | 09½ | — |
| Fusel oil, refined, dms., c.l., dlvd | lb | 21½ | — |
| t.c.l., dlvd. | lb. | 22½ | — |
| tanks, dlvd. | lb. | .20 | — |
| Fustic extract, cryst., No. 1, bbls., t.c.l | lb. | 42½ | — |
| No. 1A bbls., t.c.l | lb. | 41½ | — |
| No. 2, bbls., t.c.l | lb. | 40½ | — |
| No. 3, bbls., t.c.l | lb. | 38½ | — |
| liquid, No. 0, bbls., t.c.l | lb. | .22 | — |
| No. 1, bbls., t.c.l | lb. | 20½ | — |
| No. 2, bbls., t.c.l | lb. | 19½ | — |
| No. 3, bbls., t.c.l | lb. | .17 | — |
| solid, No. 1 bxs., t.c.l | lb | 28 | — |

## G

| | | | |
|---|---|---|---|
| G salt, bbls | lb | 59 | 60 |
| Galangal root, bls | lb. | .22 | .24 |
| Gambier, plantation, bgs., ex dock. | lb. | No stocks. | |
| Extract, bbls | | No stocks. | |
| Gammapicoline 95% dms., c.l., works | lb. | 1.00 | 1.05 |
| Gasoline, at refinery, ex tax, Arkansas, 80 octane, tanks | gal. | .09875 | — |
| Bayonne, 83 octane, tanks. | gal. | .1070 | — |
| Gulf coast, 80 octane, tanks | gal. | .11 | — |
| Group 3, 80 octane, tanks | gal. | .095 | .10125 |
| Pennsylvania, western, U. S. motor, 83 octane, tanks | gal. | .12 | — |
| natural, 26-70 octane, group 3, tanks | gal. | .05 | — |
| Gelatin, silver label, imported, cs | lb. | 1.15 | — |
| Gelsemium root, bls | lb | .25 | .30 |
| Gentian root, bls | lb | .13 | .17 |
| grd., bbls., bxs | lb. | .17 | .18 |
| powd., bbls., bxs | lb. | 18 | 21 |
| Geraniol, extra, cns. dms | lb. | 2.50 | 2.75 |
| prime | lb. | 2.20 | 2.40 |
| Geranyl acetate, cns | lb. | 2.65 | 3.90 |
| Ginger, oleoresin, African, bots | lb. | 7.50 | 8.50 |
| Jamaican | lb. | 9.50 | — |
| Root, African, bls | lb. | .44 | .45 |
| Cochin, bleached, bgs., futures, | lb. | .70 | .71 |
| unbleached, bgs., futures | lb. | .70 | .71 |
| Jamaica, No. 1, bgs | lb. | .51 | .52 |
| No. 2, bgs | lb. | .50 | .51 |
| No. 3, bgs. | lb. | .44 | .45 |
| Mar.-Apr. shipment, bgs | lb. | .42 | .43 |
| Rhattoon, bgs | lb. | .41 | .41½ |
| Nigerian, bgs. | lb. | .38 | .38½ |
| Ginseng root, cs | lb | 12.00 | 16.00 |
| Glauber's salt, sannyd. (see Sodium sulphate). | | | |
| cryst., bgs., c.l., works | 100 lbs. | 1.60 | — |
| t.c.l., bgs., works | 100 lbs. | 1.75 | 2.00 |
| Glue, bone, calcium type, 34 millipoise, 40 jellygrams, bgs., c.l., East of Midwest | lb. | .17½ | — |
| 65 jellygrams, bgs., c.l., same basis | lb. | .19 | — |
| 80 jellygrams, bgs., c.l., same basis | lb. | .20 | — |
| 110 jellygrams, bgs., c.l., same basis | lb. | .21 | — |
| 130 jellygrams, bgs., c.l., same basis | lb. | .22 | — |
| Over 150 jellygrams, bgs., c.l., same basis | lb. | .24 | — |
| Bone glue, t.c.l., 1c. per lb. higher than c.l. | | | |
| ground, 65 jellygrams, bgs., c.l. (50,000 lbs.), dlvd | lb. | .19½ | — |
| t.c.l., same basis | lb. | .20½ | — |
| Hide, 100-121 (jellygrams), bgs., c.l., dlvd | lb. | .22 | .25 |
| 122-149, bgs., c.l., dlvd | lb. | .23 | .26 |
| 150-177, bgs., c.l., dlvd | lb. | .24 | .27 |
| 178-206, bgs., c.l., dlvd | lb. | .25 | .29 |
| 207-236, bgs., c.l., dlvd | lb. | .26 | .30 |
| 237-266, bgs., c.l., dlvd | lb. | .27 | .31 |
| 267-296, bgs., c.l., dlvd | lb. | .28 | .32 |
| 299-330 bgs., c.l., dlvd | lb. | .29 | .33 |
| 331-362, bgs., c.l., dlvd | lb. | .30 | .33 |
| 363-394, bgs., c.l., dlvd | lb. | .31 | .34 |
| 395-427, bgs., c.l., dlvd | lb. | .32 | .35 |
| 428-460, bgs., c.l., dlvd | lb. | .33 | .36¼ |
| 461-494, bgs., c.l., dlvd | lb. | .34 | .38 |
| 495-529, bgs., c.l., dlvd | lb. | .35 | .39 |
| Hide glue, t.c.l., prices 1c. higher than c.l.; bbls., ½c. more than bgs. | | | |
| Glycerin, crude, saponification, 88% to refiners, tanks, dlvd | lb. | 16¾ | 18¾ |
| soaplye, 80%, tanks, dlvd | lb. | 15¼ | 16¼ |
| dynamite, dms., c.l., dlvd | lb. | .24 | — |
| t.c.l., dlvd | lb. | 24½ | — |
| tanks, dlvd | lb | 23½ | — |


# CELANESE* SOLVENT 601

It is no longer necessary to pay premium prices for an active solvent in order to get the evaporation rate you require.

Look at this chart. It shows the cost as a function of evaporation rate of five active solvents commonly used in nitrocellulose and other lacquers, and vinyl coatings. Inside the curve—*in the area of economy*—you'll find Celanese Solvent 601.

Celanese Solvent 601 can give you savings up to 16¢ per gallon. Substantial savings can also be made by supplementing the solvent power of methyl ethyl ketone with the cyclic oxides of Celanese Solvent 601. Call or write for prices and other technical information. Celanese Corporation of America, Chemical Division, Dept. 56-C, 180 Madison Ave., New York 16, New York.

Celanese* CHEMICALS

*Reg. U. S. Pat. Off.

ALCOHOLS • ALDEHYDES • ACIDS • GLYCOLS • KETONES • PLASTICIZERS • SOLVENTS

Glycerin, high gravity, dms., c.l., dlvd. lb. .24¼ - —
i.c.l., dlvd. lb. .24¾ - —
tanks, dlvd. lb. .23¾ - —
refined, BP, 93%, dms., c.l., dlvd. lb. .25½ - —
i.c.l., dlvd. lb. .26 - —
tanks, dlvd. lb. .25 - —
USP, c.p., 95%, dms., c.l., dlvd. lb. .24¾ - —
i.c.l., dlvd. lb. .25¼ - —
tanks, dlvd. lb. .24¼ - —
yellow, distilled, dms., c.l., dlvd lb. .24½ - —
lb. .24½ - —
i.c.l., dlvd. lb. .24⅝ - —
tanks, dlvd. lb. .23⅝ - —
Glycine USP (see Acid, aminoacetic).
Glyoxal, 30%, dms., c.l., works lb. .17½ - —
i.c.l., works lb. .18 - —
tanks, works lb. .17 - —
Gold chloride, acid-brown, bots. oz. 22.00 - 22.25
acid-yellow, bots oz. 20.00 - 20.25
Gold of pleasure seed, bgs lb. .40 - .41
Goldenseal root, bls lb. 3.00 - 3.40
powd., bxs. lb. 3.50 - 4.00
Gold-sodium chloride, photo, bots. oz. 13.50 - 14.00
USP IX, bots oz. 14.50 - 15.00
Grains of paradise, bgs lb. .68 - .75
Graphite, imported, amorph., powd., bgs., dlvd lb. No prices.
crystalline, 88-90%, powd., bgs., ex whse lb. No prices.
90-92%, powd., bgs., ex whse. lb. No prices.
97%, powd., bgs., ex whse lb. No prices.
flake, No. 1, 90-95%, bgs., ctns., ex whse. lb. No prices.
No. 2, whse lb. No prices.
Grease, house, loose, dlvd. lb. .05½ - —
White, choice, loose lb. .06⅛ - —
Wool (see Degras and Lanolin).
Yellow, loose lb. .05¾ - —
Green, brilliant, thioflavin, toner, molybdic, kgs., works lb. 4.25 - 4.50
Tungstic, kgs., works lb. 4.25 - 4.50
16-20%, bbls., same basis lb. .38½ - —
Chrome, CP, dark, light, medium, blue content up to 5%, bbls., dlvd. N. of Tenn. and N.C. E. of Miss., including St. Paul, Minneapolis, Davenport, Rock Island, St. Louis lb. .32 - —
6-10%, bbls., same basis lb. .33 - —
11-15%, bbls., same basis lb. .34 - —
16-20%, bbls., same basis lb. .34½ - —
21-25%, bbls., same basis lb. .35¼ - —
26-30%, bbls., same basis lb. .35¾ - —
31-35%, bbls., same basis lb. .36¾ - —
36-40%, bbls., same basis lb. .38½ - —
41-45%, bbls., same basis lb. .40 - —
46-50%, bbls., same basis lb. .41¾ - —
50% and over, bbls., same basis lb. .42¾ - —
reduced color, 5%, bbls., same basis lb. .12½ - —
6-10%, bbls., same basis lb. .13¼ - —
11-13%, bbls., same basis lb. .13¾ - —
14-16%, bbls., same basis lb. .14½ - —
17-19%, bbls., same basis lb. .14¾ - —
20-21%, bbls., same basis lb. .15 - —
22-23%, bbls., same basis lb. .15¼ - —
24-25%, bbls., same basis lb. .15¼ - —
26-27%, bbls., same basis lb. .15¾ - —
28-29%, bbls., same basis lb. .16¼ - —
30-31%, bbls., same basis lb. .17¼ - —
32-33%, bbls., same basis lb. .18½ - —
34-35%, bbls., same basis lb. .19½ - —
36-40%, bbls., same basis lb. .22¼ - —
41-45%, bbls., same basis lb. .24½ - —
46-50%, bbls., same basis lb. .26 - —
51-55%, bbls., same basis lb. .25¾ - —
56-60%, bbls., same basis lb. .26¼ - —
61-65%, bbls., same basis lb. .27¼ - —
66-70%, bbls., same basis bl. .28½ - —

Chrome green prices are ½c. higher dlvd. Ala., Fla., Ga., La. (Shreveport, 1½c.), Miss., N. C., S. C., Tenn., Texas (Dallas, Ft. Worth, 1¼c.; El Paso, 2c.); Cedar Rapids, Des Moines, Kansas City, Lincoln, Omaha, St. Joseph; 1c. higher dlvd. Pac. coast; for Denver, Pueblo, Salt Lake City, Wichita prices are equalized with Chicago.

Chromium oxide, hydrated, bbls., works lb. .75 - 1.00
pure, bgs., frt. alld lb. .33 - .40
Dyes (see Dyes, coaltar).
Malachite, thioflavin toner, molybdic, bbls., works lb. 3.00 - —
Tungstic, bbls., works lb. 3.40 - —
Paris (see P).
Phthalocyanin toner, bbls., works. lb. 4.40 - 5.00
Tungstated, brilliant, kgs. lb. 3.00 - 4.00
Emerald, kgs lb. 2.60 - —
Verdigris (see V).
Grindelia robusta herb, bls. lb. .24 - .30
Guaiac resin, NF, cs. lb. .60 - .65
ordinary, cs. lb. .49 - .51
Wood, bls lb. .35 - .36
Guaiacol, cryst., tins lb. No prices.
Liquid, NF, bots., cbys. lb. 1.90 - 1.95
Carbonate, dms lb. 2.95 - 3.00
Guarana, powd., cs. lb. 1.50 - 1.75
Gum, accroides (see Gum, yacca)
Aloe (see A.)
Ammoniac, tears, cs. lb. .90 - .95
Arabic, amber, sorts, bgs. lb. .12½ - .13½
powdered, USP, bbls. lb. .20½ - .21
Asafetida (see A).
Asphaltum (see A).
Benzoin, Sumatra, cs. lb. .50 - .70
Camphor (see C)
Copal, Congo, No. 1, bgs. lb. .25 - .26
No. 2, bgs. lb. .19 - .21
No. 3, bgs. lb. .15 - .17
Manila, loba, B, bgs. lb. .25 - .27
C, bgs. lb. .24 - .26
CBB, bgs. lb. .21 - .23
CNE, bgs. lb. .13½ - .15
DBB, bgs. lb. .19½ - .20½
DK, bgs. lb. .13 - .14
dust, bgs. lb. .07 - .08
soft, MA, bgs. lb. .14 - .15
WS, bgs. lb. .21 - .22

Gum, copal, Philippine, pale, chips, bgs. lb. .18½ - .20½
nubs, bgs. lb. .22 - .24
seeds, bgs. lb. .14 - .15
sorts, bgs. lb. .16 - .17
Pontianak, chips, bgs. lb. .16 - .18
nubs, bgs. lb. .32 - .35
Dammar, Batavia, A/D, bgs. lb. .28 - .30
A/E, bgs. lb. .23 - .24
dust, bgs. lb. .08½ - .09½
E, bgs lb. .13½ - .14½
East India, batu, bold, bgs. lb. .09 - .10
nubs and chips, bgs. lb. .06 - .07
black, bold, bgs. lb. .11½ - .12½
unscraped, bgs. lb. .09 - .10
nubs and chips, bgs. lb. .09 - .10
pale, chips, bgs. lb. .12 - .14
nubs, bgs. lb. .20 - .22
Singapore, No. 1, bgs. lb. .28 - .30
No. 2, bgs. lb. .22 - .23
No. 3, bgs. lb. .10 - .12
dust, bgs. lb. .09 - .10
seeds, bgs. lb. .13 - .14
Elemi, cns. lb. .21 - .22
Ester, gum-rosin type, dms., c.l., dlvd. Ill., Ind., Ky., Mich., Mid-Atl. States, N. E. States, Minneapolis, N. C., Ohio St Louis, St. Paul, Va., W. Va. lb. .12½ - .13
wood-rosin type dms. c.l. dlvd. Ill., Ind., etc. lb. .12½ - .13
Euphorbium, cs. lb. .35 - .40
Galbanum, cs. lb. .75 - .80
Gamboge, pipe, cs lb. 1.15 - 1.25
powd., bbls lb. 1.35 - 1.40
Ghatti, No. 2, bgs. lb. .35 - .37
No. 3, bgs lb. .31 - .33
Guaiac (see Guaiac resin).
Karaya, powd., No. 1 lb. .49 - .54
No. 2 lb. .45 - .46
No. 3 lb. .34 - .35
Kauri, bgs lb. .31½ - .32¾
Locust bean, powd., bgs. lb. .30 - .32
Mastic, cs. lb. 1.80 - 1.90
Myrrh, cs. lb. .30 - .35

Gum, olibanum, siftings, cs. lb. .12 - .13
tears, cs. lb. .16 - .30
Opium (see O).
Red (see Gum, yacca).
Rosin (see R).
Sandarac, cks. lb. 2.25 - Nom.
Scammony, cs lb. 1.50 - 1.55
Sterculia (see Gum, karaya).
Talha, bgs lb. .10 - .11
Tragacanth, No. 1, cs lb. 2.75 - 3.00
No. 2, cs lb. 2.50 - 2.75
No. 3, cs lb. 1.75 - 2.00
powdered, USP, bbls lb. 1.35 - 1.45
Yacca, bgs lb. .06 - —
Gypsum, Keane's cement, paper bgs., c.l., Acme, Tex., frt. equald ton. 22.63 - —
Harlem river, N. Y., frt. equald ton. 26.25 - —
Medicine Lodge, Kan., frt. equald ton. 17.00 - —
New Brighton, N. Y., frt. equald ton. 30.63 - —
Southard, Okla., frt. equald ton. 17.00 - —
Sweetwater, Tex., frt. equald ton. 21.45 - —
Plaster of paris, paper bgs., c.l., Acme, Texas, frt. equald ton. 12.50 - —
Blue Rapids, Kans., frt. equald ton. 10.50 - —
Harlem river, N. Y., frt. equald ton. 12.00 - —
Medicine Lodge, Kan., frt. equald ton. 12.50 - —
New Brighton, N. Y., frt equald ton. 18.00 - —
Saltville, Va., frt. equald ton. 9.00 - —

Gypsum, plaster of paris, Southard, Okla., frt. equald ton. 12.50 - —
Sweetwater, Tex., frt. equald ton. 12.50 - —
Stucco, paper bgs., Akron, N. Y., frt. equald ton. 8.00 - —
Blue Rapids, Kans., frt. equald ton. 8.00 - —
Clarence Center, N. Y., frt. equald ton. 8.00 - —
Fort Dodge, Iowa, frt. equald ton. 8.00 - —
Gypsum, Ohio, frt. equald. ton. 8.00 - —
Grand Rapids, Mich., frt. equald ton. 8.00 - —
Harlem river, N. Y., frt. equald ton. 8.00 - —
National City, Mich., frt. equald ton. 8.00 - —
New Brighton, N. Y., frt. equald ton. 8.00 - —
Plasterco, Ga., frt. equald. ton. 8.00 - —
Portsmouth, N. H., frt. equald ton. 8.00 - —
Roton, Texas, frt. equald ton. 8.00 - —
Saltville, Va., frt. equald. ton. 9.00 - —
Southard, Okla., frt. equald ton. 8.00 - —
Sweetwater, Texas, frt. equald ton. 8.00 - —
Terra alba, paper bags, c.l., Harlem River, N. Y. works ton. 22.50 - —
New Brighton, N. Y., works ton. 21.00 - —

WHERE DID IT GO?
Down the sewer — rejected.

WHY?
Unreliable chemicals spoiled it.

RESULT:
Often your spoilage savings enable you to maintain *higher* quality at *lower* long-run cost. May we give you the benefit of our long experience in solving quality control problems?

Even when only one batch in ten goes sour, your cost on the other nine goes up at least 11%. That's why so many process industries have found it pays to use Mallinckrodt *Fine Chemicals*. Their unwavering purity makes it far easier to turn out uniformly better batches . . . eliminate rejects.

• better batches *begin* with MALLINCKRODT FINE CHEMICALS

MALLINCKRODT CHEMICAL WORKS
Mallinckrodt St., St. Louis 7, Mo. • 72 Gold St., New York, N. Y.
CHICAGO • CINCINNATI • CLEVELAND • LOS ANGELES • MONTREAL • PHILADELPHIA • SAN FRANCISCO
Manufacturers of Medicinal, Photographic, Analytical and Industrial Fine Chemicals

**Hawthorn Berries—Lead Linoleate**

## H

| | | | |
|---|---|---|---|
| Hawthorn berries, bgs | lb. | .40 | - .45 |
| Heliotropin, cryst., cns | lb. | 2.85 | - 3.05 |
| Hellebore root, dom., green, bls | lb. | .80 | - .90 |
| imp., black, whole, bls. | lb. | .20 | - .25 |
| ground, bxs. | lb. | .25 | - .30 |
| powder, bxs. | lb. | .27 | - .32 |
| white, whole, bls. | lb. | .30 | - .40 |
| powder, bxs. | lb. | .35 | - 45 |
| Helonias root, bls | lb. | 1.65 | - 1.75 |
| Hematine extract, cryst., No. 0, bbls., l.c.l | lb. | .45½ | - — |
| No. 1, bbls., l.c.l. | lb. | .44½ | - — |
| No. 1A, bbls., l.c.l. | lb. | .41½ | - — |
| No. 2, bbls., l.c.l. | lb. | .40½ | - — |
| No. 3, bbls., l.c.l. | lb. | .38½ | - — |
| No. 4, bbls., l.c.l. | lb. | .36½ | - — |
| No. 5, bbls., l.c.l. | lb. | .34½ | - — |
| paste, No. 1, bbls., l.c.l. | lb. | .19 | - — |
| No. 2, bbls., l.c.l. | lb. | .18 | - — |
| No. 3, bbls., l.c.l. | lb. | .17 | - — |
| No. 4, (red), bbls., l.c.l. | lb. | .12½ | - — |
| Hemlock bark extract, 25% tannin, bbls., c.l., works | lb. | No stocks. | |
| tanks, works | lb. | No stocks. | |
| Henbane leaves, bls | lb. | .30 | - .40 |
| Henna leaves, bls | lb. | .23 | - .25 |
| powd., bbls., bgs | lb. | .27 | - .29 |
| Heptane, industrial, Bayonne, N. J., tanks | gal. | .16 | - — |
| group 3, tanks | gal. | .12½ | - .13¼ |
| Hexalin (see Cyclohexanol) | | | |
| Hexamethylenetetramine, tech., bgs. c.l., Perth Amboy or N.Y.C. | lb. | .22 | - — |
| l.c.l., same basis | lb. | .22½ | - — |
| bbls., c.l., same basis | lb. | .24 | - — |
| l.c.l., same basis | lb. | .24½ | - — |
| Hexamethylenetetramine, USP, dms., 500 lbs. or more, same basis | lb. | .38½ | - — |
| smaller lots, same basis | lb. | .39½ | - — |
| Hexamine (see Hexamethylene tetramine). | | | |
| Hexane, industrial, group 3, tanks, gal. | | .13¼ | - .14½ |
| Bayonne, N. J., tanks | gal. | .16 | - — |
| Hexanol, normal, dms., c.l., works, lb. | | .30½ | - — |
| l.c.l., works | lb. | .31 | - — |
| tanks, works | lb. | .29 | - — |
| Hexyleneglycol, dms., c.l., dlvd | lb. | .14 | - — |
| l.c.l., dlvd | lb. | .14½ | - — |
| tanks, dlvd | lb. | .12½ | - — |
| Hexylmethacrylate, normal, dms., less than truckload, works. | lb. | .71 | - — |
| Hexylresorcinol, USP, 50 lbs. up, frt. alld | lb. | 17.00 | - — |
| works | lb. | 15.00 | -17.00 |
| smaller lots, frt. alld | lb. | 18.00 | - — |
| Histamine diphosphate, USP, bots | kilo. | 500.00 | - — |
| Histidine hydrochloride—laevo, NF, fib. dms., 50 kilo lots, works | kilo. | 100.00 | -120.00 |
| 1-5 kilos, works | kilo. | 110.00 | -130.00 |
| Homatropine hydrobromide, USP, bots | oz. | 15.00 | -16.00 |
| Hydrochloride, bots | oz. | 20.00 | -22.00 |
| Methylbromide, NF | oz. | 13.00 | -16.25 |
| Hoofmeal, 17-18% ammonia bulk, c.l., Chicago, unit-ton. | | 7.00 | - — |
| Hops, NF, bls | lb | .40 | 45 |
| Horehound, bls. | lb. | .19 | - .20 |
| Hydrangea root, bls | lb | .14 | 17 |
| Hydrastine, bots | oz. | 53.50 | -53.80 |
| Hydrochloride, NF | oz. | 29.50 | -36.00 |
| Sulphate, bots | oz. | 53.50 | -53.80 |
| Hydrastinine, 10-grain bots | bot. | 1.95 | — |
| Hydrastis (see Goldenseal). | | | |
| Hydrofuramide, dms., fin. scns., works | lb. | .30 | - .40 |
| Hydrogen peroxide, USP, bbls | lb. | .03¾ | - .05 |
| 27½%, cbys., E. of Miss. or W. coast via Panama Canal | lb. | .17½ | - .19¼ |
| 25%, cbys., same basis | lb. | .23½ | - — |
| dms., c.l., same basis | lb. | .20½ | - — |
| l.c.l., same basis | lb. | .21½ | - — |
| tanks | lb. | .19¾ | - — |
| Hydroquinone, photographic, bbls., dms | lb. | .90 | - — |
| tech., dms. | lb. | .70 | - — |
| Hydroxycitronellal, cns. | lb | 5.35 | - 7.80 |
| Hyoscine salts (see Scopolamine). | | | |
| Hyoscyamine, bots. | oz. | 15.75 | -16.00 |
| Hydrobromide, bots. | lb. | 16.50 | -18.00 |
| Sulphate, bots. | oz. | 13.50 | -14.00 |
| Hypernic extract, cryst., No. 1, bbls., l.c.l. | lb. | .56 | - — |
| No. 2, bbls., l.c.l. | lb. | .48 | - — |
| liquid, No. 1, bbls., l.c.l. | lb. | .50 | - — |
| No. 2, bbls., l.c.l. | lb. | .25 | - — |
| solid, No. 1, bxs., l.c.l. | lb. | .44 | - — |
| Hyssop herb, bgs. | lb. | .35 | - .45 |
| Leaves, bgs. | lb. | .45 | - .50 |

## I

| | | | |
|---|---|---|---|
| Iceland moss, bgs. | lb. | .35 | - .40 |
| Ichthammol, F, dms | lb. | .60 | - .75 |
| Indian red (see Red, Indian). | | | |
| Indigo, nat., chests | lb. | 2.14 | - 2.16 |
| synth., paste, bots. | lb. | .23 | - — |
| powd., bbls. | lb. | 1.03 | - — |
| Indol, CP, bots | lb. | 17.00 | -19.00 |
| Inositol, tins, dlvd. | lb. | 5.00 | - — |
| Insect flowers (see Pyrethrum). | | | |
| Iodine, crude, kgs | lb | 1.52 | 1.729 |
| resubl., USP., bots., jars | lb. | 2.30 | - 2.41 |
| Iodochlorohydroxyquinolin, NF, dms. | lb. | 5.90 | - — |
| Iodoform, NF, dms., kgs | lb. | 4.45 | - 4.60 |
| Ionone, alpha, cns | lb. | 4.40 | -12.30 |
| beta, cns. | lb. | 7.05 | - 6.50 |
| Ipecac root, bgs | lb. | 4.50 | - 5.00 |
| powd., bgs. | lb. | 5.00 | - 5.50 |
| Irish moss, bleached, prime, bls. | lb. | .16 | - .18 |
| Iron acetate, liquor, 28° bbls., c.l., works | lb. | .09 | - — |
| l.c.l., works | lb. | .09¾ | - — |
| solut., USP IX, cbys. | lb. | .16 | - — |
| djns. | lb. | .17 | - — |
| Cacodylate, NF, bots | lb. | 13.50 | -14.50 |
| Chloride (ferric), anhydr., tech., dms., c.l., works | 100 lbs. | 5.75 | - — |
| l.c.l., works | 100 lbs. | 6.50 | - 7.50 |
| cryst., tech., c.l., bbls., works. | 100 lbs. | 5.00 | - 6.00 |
| l.c.l., bbls., works | 100 lbs. | 5.50 | - 8.00 |
| USP, dms., works | lb. | .06¾ | - .08¼ |
| solut., 42 Be, 100% basis, tanks, works | 100 lbs. | 3.45 | - — |
| Citrate, gran., dms | lb. | .77 | - .80 |
| Gluconate, NF, dms | lb. | .83 | - .95 |
| Glycerophosphate, N.F., powd. | lb | 4.25 | - 4.35 |
| Hypophosphite, NF, dms. | lb. | 2.80 | - — |
| Iodide, bots | lb. | 3.66 | - 3.73 |
| Naphthenate, liq., 6% Fe, dms., frt. alld. | lb. | .21¼ | - .21¾ |
| Oxalate, gran., dms | lb. | .83 | - .85 |
| Phosphate, soluble, NF, gran., cs. | lb. | .64 | - .65 |
| Pyrophosphate, soluble, NF VII, gran., dms | lb. | .69 | - .72 |
| Reduced (see Iron by hydrogen). | | | |
| Resinate, 7.4%, Fe, dms., frt. alld. | lb. | .23 | - — |
| Stearate, dms., c.l. | lb. | .34 | - — |
| ton lots | lb. | .35 | - — |
| less ton lots | lb. | .36 | - — |
| Sulphate, partially hydrated, bgs., c.l., works | ton. | 28.50 | - — |
| l.c.l., works | ton. | 29.50 | - — |
| ferrous, tech. (see Copperas). | | | |
| USP, cryst., bbls., dms | lb. | .09½ | - .10 |
| Iron by hydrogen, kgs | lb. | .80 | - .85 |
| Iron-ammonium citrate, green, NF, gran., dms | lb. | .55 | - .58 |
| brown, USP, gran., dms | lb. | .55 | - .58 |
| Oxalate, dms | lb. | .25½ | - .28½ |
| Iron-potassium oxalate fine gran., dms. | lb. | .30½ | - .33½ |
| Iron-sodium oxalate, fine gran., dms | lb. | .25½ | - .28½ |
| Isoborneol, cns. | lb. | .84 | - .95 |
| Isobornyl acetate, cns | lb. | .97 | 1.10 |
| Thiocyanoacetate, dms., c.l., works. | gal. | 3.85 | - — |
| l.c.l., works | gal. | 3.85 | - 4.05 |
| tanks, works | gal. | 4.23 | - — |
| Isobutyl acetate, cns. | lb. | .92 | 1.25 |
| Methacrylate, dms., works | lb. | .60 | - — |
| Propionate, cns | lb. | No prices. | |
| Isobutyraldehyde, dms., works | lb. | .50 | 53 |
| Isoeugenol, cns. | lb. | 3.10 | 3.40 |
| Isoleucine, dextro-laevo, with si-loisoleucine, dms., works | lb. | 26.00 | -35.00 |
| Isopentane, dms., works | lb. | .45 | .55 |
| Isophorone, dms., c.l., works | lb. | .22½ | - — |
| l.c.l., works | lb. | .23 | - — |
| tanks, works | lb. | .21 | - — |
| Isopropanol (see Acohol, Isopropyl). | | | |
| Isopropyl acetate, dms., c.l., frt. alld. | lb. | .10½ | - — |
| l.c.l., same basis | lb. | .11 | - .11½ |
| tanks, same basis | lb. | .09 | - — |
| Alcohol (see Alcohol, Isopropyl). | | | |
| Benzene (see Cumene). | | | |
| Ether (see Ether, Isopropyl). | | | |
| Phenylcarbamate (see IPC). | | | |
| Isopropylamine, dms., c.l., frt. alld. | lb. | .24 | - — |
| l.c.l., same basis | lb. | .25 | - — |
| tanks, same basis | lb. | .22½ | - — |
| Isoquinoline, dms., c.l., works | lb | .20 | - — |
| l.c.l., works | lb | .40 | - — |

## J

| | | | |
|---|---|---|---|
| Jaborandi leaves, bls | lb. | .15 | - .20 |
| Jalap root, NF, bls | lb. | .43 | - .45 |
| powd., bbls., bxs | lb. | .48 | - .50 |
| Resin, NF, powd., bxs | lb. | 6.20 | - 6.60 |
| Juniper berries, bgs | lb. | .08 | - .18 |
| Tar, USP, dms. | lb. | .40 | - .65 |

## K

| | | | |
|---|---|---|---|
| Kamala, powd., cns | lb. | .47 | - .49 |
| Kaolin (see China clay). | | | |
| Kava kava root, bls | lb. | .25 | - .30 |
| Kerosene, at refinery, Ark., 42-44 specific gravity, w.w., tanks | gal. | .085 | - .09125 |
| Bayonne, 41-43 s.g., w.w., tanks. | gal. | .089 | - — |
| California, 40-43 s.g., w.w., tanks | gal. | .126 | - .156 |
| Gulf ports, 41-43 s.g., w.w., tanks. | gal. | .086 | - .0925 |
| Okla.-Tex., 41-43, s.g., w.w. tanks. | gal. | .085 | - .09 |
| Penn., Western, 45 s.g., w.w., tanks | gal. | .0975 | - .10 |
| Kola nuts, bgs | lb. | 08 | .10 |
| Kyanite, imp., low iron content, 10-mesh, whse | ton. | 85.00 | -95.00 |
| calcined, grain, 10-mesh, whse | ton. | 95.00 | -105.00 |

## L

| | | | |
|---|---|---|---|
| Lady slipper root, bls | lb. | 1.50 | - 1.75 |
| Lanolin, anhyd., cosmetic, dms., works | lb. | .30 | - .32 |
| pharmaceutical, USP, dms., works | lb. | .28 | - .31 |
| hydrous | lb. | .27 | - .29 |
| Lard, cash, trcs., Chicago | lb. | .10⅞ | Nom. |
| Larkspur seed, bgs. | lb. | .30 | - .35 |
| Laurel berries, bls | lb. | .25 | 26 |
| Leaves, Portuguese, bls. | lb. | .11¼ | - .11½ |
| Greek, bls. | lb. | .08 | 08½ |
| Turkish, bls. | lb. | No stocks | |
| Yugoslavian, bls. | lb. | .10 | - .10½ |
| Lauryl methacrylate, normal, dms., less than truckload, works | lb. | 1.00 | - — |
| Lavender flowers, medium, bls | lb. | .55 | 60 |
| ordinary, bls. | lb. | .16 | - .20 |
| select, bls | lb | 60 | .65 |
| Lead acetate, white, crystals, bbls., | lb. | .19 | - — |
| gran., bbls. | lb. | .19¾ | - — |
| powd., bbls. | lb. | .19¾ | - — |
| USP, cryst., dms | lb. | .20 | - — |
| gran., powd., dms | lb. | .20¾ | - — |
| Arsenate, dealers, basic powder, 3-lb. bgs., or larger, c.l., frt. alld. on 96 lbs. or over. | lb. | .25 | - .27 |
| l.c.l., frt. alld | lb. | .26 | - — |
| 1-lb. bgs., c.l., frt. alld | lb. | .33 | - .38 |
| l.c.l., frt. alld. | lb. | .34 | - .39 |

Lead arsenate prices are works or whse. basis frt. alld. on purchases totaling $75.00 or more to dest. East.

| | | | |
|---|---|---|---|
| Blue basic sulphate, bbls., c.l., shipt point, frt. alld. | lb. | .13¼ | - — |
| l.c.l., works | lb. | .14¼ | - — |
| Carbonate (see Lead, white). | | | |
| Chloride, dms. | lb. | .39 | - — |
| Iodide, NF V, jars | lb. | 3.80 | - — |
| Linoleate, liq., 13% Pb, dms., frt. alld. | lb. | .29¼ | - — |


AERO* BRAND

STEARATES

ALUMINUM
CALCIUM
MAGNESIUM
ZINC

WRITE FOR SAMPLES

MANUFACTURED BY

AMERICAN Cyanamid COMPANY

Industrial Chemicals Division

30 Rockefeller Plaza, New York 20, N. Y.

*Trade Mark

Lead, metal, pigs, prime, N. Y. lb. .12 - —
St. Louis lb. .1180-
Metallic paste, dms., 30,000-40,000 lbs., works lb. .38 - —
10,000-20,000 lbs., same basis lb. .28½ - —
2,000-10,000 lbs., same basis lb. .29 - —
100 to 2,000 lbs., same basis lb. .30½ - —
Prices ex whse, Jersey City, N. J., 4½c. per pound hgher
Napnthenate, liquid, 16% pb, dms., dlvd lb. .15½ - —
24% Pb, dms., dlvd lb. .21¼ - —
30% Pb, dms., dlvd lb. .25¾ - —
Nitrate, bbls., c.l. lb. .19 - —
l.c.l. lb. .19¼ - —
Oleate, fused, bbls lb. .24 - —
Orthosilicate gel, 50% PbO, dms., works lb. .29½ - —
60% PbO, dms., works lb. .28 - —
Peroxide, powd., tech., bbls lb. .36 - .39
Phthalate, dibasic, dms., works lb. .37½ - —
Red, 95%, $Pb_3O_4$, or less, bbls., c.l., ship't point, frt. alld. lb. .14¾ - —
l.c.l., same basis lb. .15¾ - —
97%, $Pb_3O_4$, bbls., c.l., same basis lb. .15 - —
l.c.l., same basis lb. .16 - —
96%, $Pb_3O_4$, bbls., c.l., same basis lb. .15¼ - —
l.c.l., same basis lb. .16¼ - —
Resinate, precip., dms., dlvd lb. .35 - —
Salicylate, normal, dms., works lb. .41¾ - —
Silicate, bgs., l.c.l., ship't pt., frt. alld lb. .1420- .1475
Stearate, dibasic, dms., works lb. .50¼ - —
precip., bbls., c.l. lb. .36 - —
ton lots lb. .37 - —
less ton lots lb. .38 - —
Sulphate (see Lead, blue; Lead, white, basic sulphate).
tribasic, dms., works lb. .24¼ - —
Tallate, liquid, 16% Pb, dms. lb. .13¼ - —
solid, 30% Pb, dms lb. .20½ - —
White, basic carbonate, bgs., c.l., ship't point, frt. alld. lb. .14¾ - —
l.c.l., same basis lb. .15¾ - —
basic silicate, bgs., c.l., ship't point, frt. alld lb. .14¾ - .16¼
l.c.l., same basis lb. .14¾ - .17¼
basic sulphate, bgs., c.l., ship't point, frt. alld lb. .13¼ - —
l.c.l., same basis lb. .14¼ - —
Lecithin, edible, tech., bleached dms., non-ret., c.l., works lb. .16 - —
l.c.l., same basis lb. .18½ - —
unbleached, c.l., same basis lb. .15 - —
l.c.l., same basis lb. .17½ - —
Lemon peel, bls lb. .20 - .23
Leucine, dextro-laevo, dms., works lb. 28.00 - 35.00
Licorice extract, mass, cns lb. .40 - .43
powd., bbls. lb. .53 - —
Root, bls lb. .08 - .09
5-lb. bundles, cs lb. .40 - .45
powd., bbls lb. .11 - .12
Lignin extract, tanning grade, bgs., c.l., works lb. .05¼ - .06¾
Lime, agricultural, bgs. works ton. 13.00 - 13.50
Chemical (quicklime), lump, pebble, bulk, Adams, Mass. ton. 10.00 - —
Annville, Pa. ton. 10.50 - —
Bellefonte, Pa. ton. 10.50 - —
Buffalo, N. Y. ton. 10.00 - —
Carey, Ohio ton. 7.00 - —
Cedar Hallow, Pa. ton. 10.50 - —
Farnams, Mass. ton. 14.00 - —
Gibsonburg, Ohio ton. 8.50 - —
Hannibal, Mo ton. 7.50 - —
Keystone, Ala ton. 9.75 - —
Knoxville, Tenn ton. 9.75 - —
Limedale, Ark ton. 9.00 - —
Longview, Ala ton. 9.75 - —
Martinsburg, W. Va ton. 10.00 - —
Menominee, Mich ton. 8.00 - —
Mitchell, Ind ton. 7.50 - —
Rockland, Maine ton. 9.00 - —
Scioto, Ohio ton. 7.50 - —
Sherwood, Tenn ton. 10.00 - —
Sherwood, Wis. ton. 8.50 - —
Woodville, Ohio ton. 9.50 - —
York, Pa ton. 10.50 - —
Hydrated, paper bgs., Adams, Mass ton. 11.50 - —
Annville, Pa ton. 13.50 - —
Bellefonte, Pa. ton. 13.50 - —
Buffalo, N. Y. ton. 13.50 - —
Carey, Ohio ton. 9.00 - —
Cedar Hollow, Pa. ton. 13.50 - —
Engle, W. Va. ton. 13.00 - —
Farnams, Mass. ton. 14.00 - —
Gibsonburg, Ohio ton. 9.50 - —
Hannibal, Mo. ton. 9.50 - —
Keystone, Ala. ton. 13.00 - —
Knoxville, Tenn. ton. 12.25 - —
Limedale, Ark. ton. 10.50 - —
Longview, Ala. ton. 13.00 - —
Manistique, Mich. ton. 9.50 - —
Marblehead, Ohio. ton. 10.50 - —
Mitchell, Ind. ton. 10.00 - —
Petoskey, Mich ton. 10.00 - —
Port Island, Mich. ton. 9.00 - —
Rapid City, S. Dak. ton. 12.00 - —
Rockland, Maine ton. 9.00 - —
Scioto, Ohio ton. 9.00 - —
Sherwood, Tenn. ton. 13.00 - —
Sherwood, Wis. ton. 10.00 - —
Springfield, Mo. ton. 9.00 - —
Woodyville, Ohio ton. 8.50 - —
York, Pa ton. 13.50 - —
Spray, paper bgs., Adams, Mass. ton. 11.70 - —
Annville, Pa ton. 13.50 - —
Bellefonte, Pa. ton. 13.50 - —
Carey, Ohio ton. 11.00 - —
Engle, W. Va. ton. 13.00 - —
Farnams, Mass. ton. 14.00 - —
Gibsonburg, Ohio ton. 10.00 - —
Marblehead, Ohio ton. 10.00 - —
Rockland, Me. ton. 10.00 - —
Scioto, Ohio ton. 10.00 - —
Woodville, Ohio ton. 10.00 - —
York, Pa ton. 13.50 - —
Lime salts (see Calcium).
Lime-ammonia-nitrogen, 20.5% N (see Ammonium nitrate-limestone).
Limestone, grd., bgs., works ton. 3.50 - 4.00
Linalool, ex bois de rose lb. 4.50 - 6.85
ex lignaloe wood lb. 6.50 - 7.00
Linalyl acetate, ex bois de rose, bots lb. 4.20 - 7.20
ex petitgrain, bots lb. 4.25 - 6.00
Lindane, 25%, works, cans lb. 3.00 - 3.05
dms., works lb. 2.95 - —
Linden flowers with leaves, bls lb. .22 - .25
without leaves, bls lb. .22 - .28
Linseed meal, 34% bulk, Midwest mills ton. 65.00 - —
Litharge, comm. powd., bbls., c.l., ship't point, frt. alld lb. .13¾ - —
l.c.l., same basis lb. .14¾ - —
Lithium benzoate, dms lb. 1.65 - —
Bromide, NF, bbls., works, frt. equald lb. 1.90 - —
Carbonate, NF, bbls., kgs lb. 1.10 - 1.15
Chloride, cryst., dms lb. .93 - —
Citrate, NF, bbls., dms., kgs lb. 1.25 - 1.40
Fluoride, bbls lb. 1.80 - 2.00
Hydroxide, dms lb. 1.00 - 1.25
Salicylate, dms. lb. 1.69 - 1.70

Lithopone, ordinary, bgs., c.l., ship't point lb. .06¼ - —
l.c.l., same basis lb. .06½ - .06¾
Titanated (high-strength), bgs., c.l. lb. .08¼ - —
smaller lots lb. .08½ - —
Lithopone prices, Pacific Coast, ¾c. per lb higher.
Liverwort leaves, bls lb. .75 - .80
Lobelia herb, bls lb. .85 - .90
leaves, NF lb. .90 - .95
Lobeline sulphate, bots., works oz. 34.00 - 38.00
Logwood extract, crystals, No. 1, bbls., l.c.l. lb. .38½ - —
No. 2, bbls., l.c.l. lb. .36½ - —
liquid, No. 1, bbls., l.c.l. lb. .18½ - —
No. 2, bbls., l.c.l. lb. .17½ - —
No. 3, bbls., l.c.l. lb. .17 - —
No. 4, bbls., l.c.l. lb. .16½ - —
solid, No. 1, bxs., l.c.l. lb. .33 - —
No. 2, bxs., l.c.l. lb. .31 - —
No. 3, bxs., l.c.l. lb. .28½ - —
No. 4, bxs., l.c.l. lb. .28 - —
No. 5, bxs., l.c.l. lb. .26½ - —
No. 6, bxs., l.c.l. lb. .44½ - .49½
Lovage root, imp., bls. lb. 1.00 - 1.10
Lupulin, tins lb. 1.95 - 2.00
Lycopodium, cs. lb. 1.30 - 1.50
Lysine hydrochloride, dextro-laevo. kilo. 145.00 - 149.00

## M

Mace, Amboyna, bls lb. .73 - .74
Banda, No. 1, bls lb. 1.05 - Nom.
Siauw, No. 1, bbls lb. .93 - .94
West Indian, bbls lb. .82 - .83
broken, bls lb. .75 - .76
Madder, Dutch, bgs lb. .29 - .33
Magnesia, calcined, tech., ctns., works lb. .32 - —
synth., rubber grade, ctns., works lb. .29 - .31
USP, light ctns lb. .34 - —
heavy, bbls lb. .36 - —
Magnesium arsenate, bgs., cans, works lb. .20 - .30
Bromide, jars lb. .90 - 1.00
Carbonate, tech., bgs., c.s., frt. equald lb. .09 - —
l.c.l., frt. alld. lb. .10 - —
bbls., c.l., frt. equald lb. .10¼ - —
l.c.l., frt. alld. lb. .11¼ - —
kgs., c.l., frt. equald lb. .11½ - —
l.c.l., frt. alld. lb. .12½ - —
USP, bgs., l.c.l., frt. equald lb. .10¾ - —
l.c.l., frt. alld lb .11¾ - —
bbls., c.l., frt. equald lb. .11¼ - —
l.c.l., frt. alld lb .12¼ - —
kgs., c.l., frt. equald lb. .12½ - —
l.c.l., frt. alld lb .13½ - —
Magnesium carbonate is quoted frt. alld. to N. J. except to Atlantic, Burlington, Cape May, Cumberland, Glostershire, Ocean and Salem counties, and to Phila. county, Pa. Frt. equald. with N. Y. C. on all other destinations
Chloride, anhyd., dms., works lb. .12¼ - —
flake, bbls. c.l., works ton. 40.00 - —
l.c.l., works ton. 44.00 - 46.00
Gluconate, dms., cns lb. 1.86 - 1.93
Glycerophosphate, dms., works lb. 4.85 - 4.95
Hydroxide, NF, medicinal, bbls., dms., kgs lb. .29 - .30
Hypophosphite, dms. lb. 1.60 - —
Laurate, bbls lb. .46 - .47
Metal, 99.8% ingots, cs., works lb. .20½ - —
sticks, cs., works lb. .34 - .38
Oleate, fused, bbls lb. .31 - —
Oxide (see Magnesia, calcined).
Peroxide, 15%, dms., works lb. 1.00 - 1.05

Magnesium phosphate, tribasic, NF, bbls lb. .75 - —
Silicate (see Talc).
Silicofluoride, bbls., works lb. .09 - .10
Stearate, ctns., c.l. lb. .35 - —
smaller lots lb. .36 - .37
Sulphate (see Epsom salt).
Trisilicate, USP, dms., 1,000-lb. lots lb. .43 - —
100-lb. lots lb. .50 - —
Magnesite, chemical grade, bgs., c.l., mines, Calif ton. 67.50 - —
dead-burnt, bulk, c.l., Chewalah, Wash ton. 30.50 - —
Maleic, anhydride, dms., c.l., dlvd., lb. .30 - —
l.c.l., dlvd. lb. .31 - —
Prices on maleic anhydride West of Rockies 1½c. higher.
Malva flowers, black, bls lb. 1.00 - 1.25
Blue, bls. lb. .95 - 1.10
Leaves, bls lb. .35 - .40
Manaca root, bls lb. .49 - .50
Mandrake root, bls lb. .42 - .45
Manganese acetate, bbls. lb. .32 - —
Arsenate, bgs. lb. .12 - .12½
Borate, tech., bbls lb .23 - —
Carbonate, bbls., works lb. .21 - —
Chloride, anhyd., dms., works lb. .20 - .22
Dioxide, African, battery, 84-87%, bgs., 100 tons, works ton. 73.00 - —
smaller lots, works ton. 74.00 - 94.00
Gluconate, dms., cns lb. 1.86 - 1.93
Glycerophosphate, NF, lib. dms lb. 4.15 - 4.25
Hydrate, bbls., works lb. .34 - —
Hypophosphite, NF, dms lb. 2.00 - —
Linoleate, liquid, 4.35% Mn, dms. lb. .39¼ - —
solid, precip., 8.2% Mn, bbls., lb. .41½ - —




Harshaw industrial chemicals FOR EXPORT

CERAMIC
Ceramic Colors
Uverite (Opacifier)
Antimony Oxide
Tin Oxide
Chrome Oxide Green
Cadmium Sulfide
Porcelain Enamel Frits

PAINT, VARNISH, AND PLASTIC
Driers And Other Metallic Soaps
Cadmium Lithopones
Antimony Oxide
Chrome Oxide

ELECTROPLATING
Nickel Salts:
Sulfate, Chloride, and Carbonate
Cadmium Oxide

CATALYTIC PROCESSING
Aluminum Chloride Anhydrous
Antimony Trichloride
Boron Trifluoride
Boron Fluoride Etherate
Hydrofluoric Acid
Nickel Formate

MISCELLANEOUS
Hydrofluoric Acid
Ammonium Bifluoride
Miscellaneous Fluorides
Synthetic Optical Crystals
Copper Naphthenate
Copper Oxychloride Sulfate
Cobalt Sulfate And Carbonate

WRITE FOR CATALOG
This 32 page book alphabetically lists all chemicals available. Relates the history of the Company and describes Harshaw's major activities.

THE HARSHAW CHEMICAL COMPANY
CLEVELAND 6, OHIO, U. S. A.
CABLE ADDRESS: HARSHAW • CLEVELAND

## Manganese Metal—Monoethanolamine

Manganese metal, cs., dlvd. East..lb. .30 - .33
Naphthenate, liquid, 6% Mn, dms., frt. alld..lb. .22¾ - .23¼
Oleate, precip, bbls.....lb. .33½- —
Resinate, fused, 3½% Mn, dms. precip., dms.....lb. .21½- —
Stearate, ctns., c.l.....lb. .35 - —
smaller lots.....lb. .36 - .37
Sulphate, fertilizer grade, 65%, bgs., c.l., dlvd. S. E..ton.60.00 - —
l.c.l., dlvd. S. E.....ton.67.00 - —
feed grade, 80%, bgs., dlvd. S. E..lb. .05¼- .07
75%, bgs, c.l., dlvd. S. E..ton.63.50 - —
l.c.l., dlvd. S. E.....ton.75.50 - —
Tallate, liquid, 4% Mn, dms...lb. No prices.
solid, 8% Mn, dms.....lb. No prices.
Mangrove bark, E. Africa, 38% tannin, c.l., ex dock ton. No stocks.
So. American, 30-32% tannin, c.l., ex dock..ton.62.00 -63.00
Manna, flake, large, cs.....lb. 1.10 - 1.35
small, cs.....lb. .85 - 1.00
Mannitol, com'l, dms., works.....lb .40 - .43
reagent, 50-lb. dms., works.....lb. .85 - —
Marjoram, Argentine, bls.....lb. .14 Nom.
Bohemian, bls.....lb. .47 - .47½
Chilean, bls.....lb. .50 - .51
French, bls.....lb. .55 - .58
Matico leaves, bls.....lb. .25 - .33
Melamine, bgs., ton lots, works..lb. .33 - —
500 lbs. or more, works.....lb. .33½- —
less 500 lbs., works.....lb. .36½- —
Menadione, USP, bots.....gram. .06½- —
Menthol, natural, USP.....lb. 9.90 -10.10
synthetic, USP, racemic, cns....lb. 7.25 Nom.
Menthyl salicylate, tins.....lb. 4.00 - 4.25
Mercaptobenzo thiazole, 50-lb. bgs., 150-lb. containers, ton lots, works, frt. alld., ton lots..lb. .27 - —
less ton lots, same basis lb. .29 - —
Mercury, ammoniated (see White precipitate).
Bichloride (see Corrosive sublimate).
Bisulphate, dms.....lb. 2.13 - 2.15
Chloride (see Calomel).
Cyanide, NF, cryst., powd.....lb. 3.27 - 3.32
Iodide, red, NF, dms.....lb. 4.07 - —
Yellow, NF, fib, dms.....lb. 4.23 - —
Metal (see Quicksilver).
Oxide, red, NF (see Red precipitate).
yellow, tech. (see Yellow, mercury oxide).
USP, fib, dms.....lb. 2.44 - 2.46
Mesityl oxide, dms., c.l., dlvd....lb. .13 - —
l.c.l., dlvd.....lb. .13½- —
tanks, dlvd.....lb. .11½- —
Metaldehyde, dms., works.....lb. .70 - 1.00
Metachloranilin, dms., works.....lb. .75 - —
Metacresol, 98%, dms., c.l., works.lb. .55 - .60
works, l.c.l..lb. .56 - —
80-82%, dms., works.....lb. .35 - —
70-75%, dms., works.....lb. .30 - —
Metaparaisopropylphenol, dms., c.l..lb. .21 - —
l.c.l.....lb. .22 - —
tanks.....lb. .20 - —
Metanitroparatoluidin, bbls.....lb. 1.28 - —
Metaphenylenediamine, kgs.....lb. .76 - —
Metatoluidine, bbls., works.....lb. .80 - —
Metatolylenediamine, kgs.....lb. .83 - —
Methanol, natural, dms., c.l., frt. alld..gal. .58 - —
l.c.l., frt. alld.....gal. .61 - —
tanks, frt. alld.....gal. .59 - —
Prices on natural methanol W. of Miss. 3c. higher.

Methanol, synthetic, zone 1, dms., c.l., frt. alld..gal. .38 - —
l.c.l., frt. alld.....gal. .41 - —
tanks, frt. alld.....gal. .26 - —
zone 2, dms., c.l., frt. alld..gal. .43½- .45
l.c.l., ex whse.....gal. .47½- —
tanks, frt. alld.....gal. .29½- .31
Synthetic methanol zones are: Zone 1 is all continental U. S., E. of eastern boundaries of Ariz., Idaho, Mont., and Utah. Zone 2 is remainder of the U. S., west of above state boundaries, comprising Ariz., Calif., Idaho, Mont., Nev., Ore., Utah and Wash.
Methenamine (see Hexamethylenetetramine).
Methionine, dextro-laevo, fib, dms., frt. alld., 50-lb. or more..lb. 4.55 - —
feed grade.....lb. 3.00 - —
Methoxychlor, dealers, dms., cs., works..lb. .65 - —
Methyl abietate, non-ret. dms., c.l., dlvd., zone 1..lb. .17 - —
l.c.l., same basis.....lb. .17¼- —
hydrogenated, non-ret. dms., c.l., dlvd., zone 1..lb. .17¼- —
l.c.l., same basis.....lb. .17¾- —
Zone 1 includes New England and Middle Atlantic states, Va., W. Va., N. C., Ohio, Ky., Mich., Ind., Ill., Wis., St. Paul and Minneapolis, Minn., St. Louis, Mo., Miss., Ala., Ga., Fla., S. C. and Tenn.
Acetoacetate, dms., c.l., dlvd..lb. .53 - —
l.c.l., dlvd.....lb. .54 - —
tanks, dlvd.....lb. .51½- —
Methyl acetoacetate prices frt. alld. W., ½c. higher.

Methyl acetone, natural, group A, dms., extra, c.l., E. of Miss., frt. alld..gal. .60 - —
l.c.l., same basis.....gal. .71 - —
Natural methyl acetone group A prices W. of Miss. 3c. per gal. higher.
Group B. dms., incl., E. Miss., frt. alld., any quantity..gal. .80 - —
synthetic, dms., c.l., works, frt. alld. E..gal. .53 - —
frt. alld. W.....gal. .57 - —
l.c.l., works, frt. alld. E..gal. .56½- —
frt. alld. W.....gal. .60½- —
tanks, works, frt. alld. E gal. .43½- —
frt. alld. W.....gal. .47 - —
Methyl acetone, synth., East territory is all States East of and including Colo., Mont., N. Mex. and Wyo. West territory, all States West of those four.
Acrylate, dms., c.l. and truckload, works..lb. .50 - —
less than truckload, works..lb. .50½- —
Alcohol (see Methanol).
Anthranilate, 100 lbs. or more..lb. 2.10 - 2.90
extra.....lb. 4.00 - 4.40
Benzoate, cns.....lb. .55 1.20
Bromide, dealers, cns.....lb. .69 .71
cyls.....lb. .60 .78
Chloride, indust., cyl., works..lb. .17 - —
tanks, multi-unit, works....lb. .13 - —
single-unit, works.....lb. .10½- —
refrigerator mfrs., cyls., dlvd....lb. .37 - —
other consumers or service men, cyls., dlvd..lb. .42 - —
Cinnamate, cns.....lb. 1.48 - 1.65
Formate, refd., dms.....lb. .35 .40
tech., non-ret. dms., any quantity, works..lb. .93 - —
tanks, works.....lb. .07 - —
Heptin carbonate, bots.....lb.36.00 -58.00
Iodide, bots, cbys.....lb. 3.00 - 4.75
Lactate, dms., l.c.l., works ...lb. .35 - —
Methacrylate, dms., c.l. and truckload, works..lb. .44½- —
less than truckload, works..lb. .45 - —
Parahydroxybenzoate, USP, bots. lb. 2.10 - 2.20
fib, dms.....lb. 1.90 - 2.00
Roseanilin chloride, USP, bots...lb. 5.15 - 5.30
Salicylate, USP, dms., 500 lbs..lb. .40 - —
25-50 lbs.....lb. .45 - —
Testosterone, USP, 100 gms...gm. 3.50 - —
Methylal, refined, 95%, dms., c.l., works..lb. .11 - —
l.c.l., works.....lb. .12 - —
tanks, works.....lb. .09 - —
Methylamyl acetate, dms., c.l., dlvd. lb. .13 - —
l.c.l., dlvd.....lb. .13½- —
tanks, dlvd.....lb. .11½- —
Ketone, dms., works.....lb. .95 - —
Methylcellulose, special vis., (4,000 cps.), fib. ctns., c.l., frt. alld.....lb. .68 - —
2,000 lbs. and more, same basis..lb. .70 - —
smaller lots, frt. alld. on 100 lbs. lb. .75 .80
standard vis., (15-1,500 cps.), fib. ctns., c.l., frt. alld..lb. .63 - —
2,000 lbs. and more, same basis lb. .63 - —
smaller lots, frt. alld. on 100 lbs. lb. .68 - .73
Methylene blue, USP, 100-lb. lots, kgs., frt. adjusted..lb. 2.87 - —
smaller lots, kgs., same basis. lb. 3.02 3.22
Chloride, indust., dms., c.l., dlvd. E. lb. .12½- —
l.c.l., dlvd. E.....lb. .13½- —
tanks, dlvd. E.....lb. .11½- —
Methylethyl ketone, dms., c.l., dlvd. lb. .10½- —
l.c.l., dlvd.....lb. .11 - —
tanks, dlvd.....lb. .09 - —
Methylhexyl ketone, tech., dms., works..lb. .60 - —
Methylionone, A, cns.....lb. 6.55 - 8.80
D, cns.....lb. 7.50 - 9.55
prime, cns.....lb. 4.55 - 6.40
Methylisobutyl carbinol (see Carbinol, methylisobutyl).
Ketone, dms., c.l., dlvd.....lb. .12½- —
l.c.l., dlvd.....lb. .13 - —
tanks, dlvd.....lb. .11 - —
Methylnaphthyl ketone, cns.....lb. 3.00 - 3.75
Methylparaben (see Methylparahydroxybenzoate).
Methylpentanediol (see Hexyleneglycol)
Methylthionine chloride (see Methylene blue).
Mica, dry-grd., paint, plastic, 100 mesh, bgs., c.l., works..lb. .03⅞- —
roofing, 20 to 80 mesh, works.lb. .03⅜- —
wet-grd., biotite, bgs., c.l., works, frt. alld., E lb. .05¾- —
l.c.l., ex whse., or frt. alld. E lb. .06½- —
extra fine, bgs., c.l., works, frt. alld., E lb. .05¾- —
l.c.l., ex whse. or frt. alld. E lb. .06½- —
paint or lacq., bgs., c.l., works, frt. alld., E lb. .07¼- —
l.c.l., ex whse. or frt. alld. E lb. .08 - —
rubber, bgs., c.l., works, frt. alld. E lb. .07 - —
l.c.l., ex whse. or frt. alld. E lb. .07¾- —
wallpaper, bgs., c.l., works, frt. alld. E lb. .07¼- —
l.c.l., ex whse. or frt. alld. E lb. .08 - —
white, extra fine, bgs., c.l., works, frt. alld. E lb. .07¼- —
l.c.l., ex whse. or frt. alld. E lb. .08 - —
Mica, wet-grd., W. of Miss. R., ½c. higher, W. of Rockies, 1c. higher
Milk powder, skimmed, roller, bbls., c.l..lb. .10½- .10⅝
spray, bbls., c.l.....lb. .12¼- .12¾
Whole, roller, bbls., c.l.....lb. .32 - .33
spray, bbls., c.l.....lb. .28½- .35¼
Sugar, crude, bgs., c.l., works lb. .16½- —
edible, bbls., works, 30,000-lb. lots..lb. .23 - —
2,000-lb. lots.....lb. .22¾- —
200-1,800-lb. lots.....lb. .23¼- —
USP, bbls., works 30,000-lb. lots lb. .26 - —
2,000-lb. lots.....lb. .26¾- —
200-1,800-lb. lots.....lb. .27¼- —
Molasses, blackstrap, tanks....gal. .08 - —
New Orleans, tanks.....gal. .06¼- —
Molybdate orange (see Orange molybdate).
Mineral spirits (see Petroleum, mineral spirits).
Molybdenum metal, 50% Mo powd., kgs lb. 2.60 3.00
pure, kgs., works, basis Mo content lb. .95 - —
technical, kgs., works, basis Mo. content lb. .80 —
Monochlorobenzene, dms., c.l., works, frt. alld lb. .07 .08
l.c.l., works, frt. equald.....lb. .08 - .09
tanks, works, frt. equald lb. .06 .06⅛
Monoethanolamine, dms., c.l., frt. alld. E. lb. .27 - —
l.c.l., same basis.....lb. .28 - —
tanks, same basis.....lb. .25½- —

3 GOOD REASONS WHY IT ALWAYS PAYS TO USE JAVONELLA

- It's a manufactured article . . . free from the price fluctuations of natural essential oils such as Citronella, Sassafras, etc.
- Its high quality never varies, enabling you to manufacture uniformly dependable products.
- Always lower in cost than the natural oils, particularly now with citronella prices on the rise, its use results in production economies and higher profits without lowering quality standards.

WRITE FOR SAMPLE AND QUOTATION

AROMATIC CHEMICALS • ESSENTIAL OILS • PERFUME OILS • FLAVORS
FELTON CHEMICAL COMPANY, INC.
599 Johnson Ave., Brooklyn 6, N. Y.
BRANCHES IN BOSTON • PHILADELPHIA • LOS ANGELES
ST. LOUIS • CHICAGO • DALLAS • MONTREAL • TORONTO

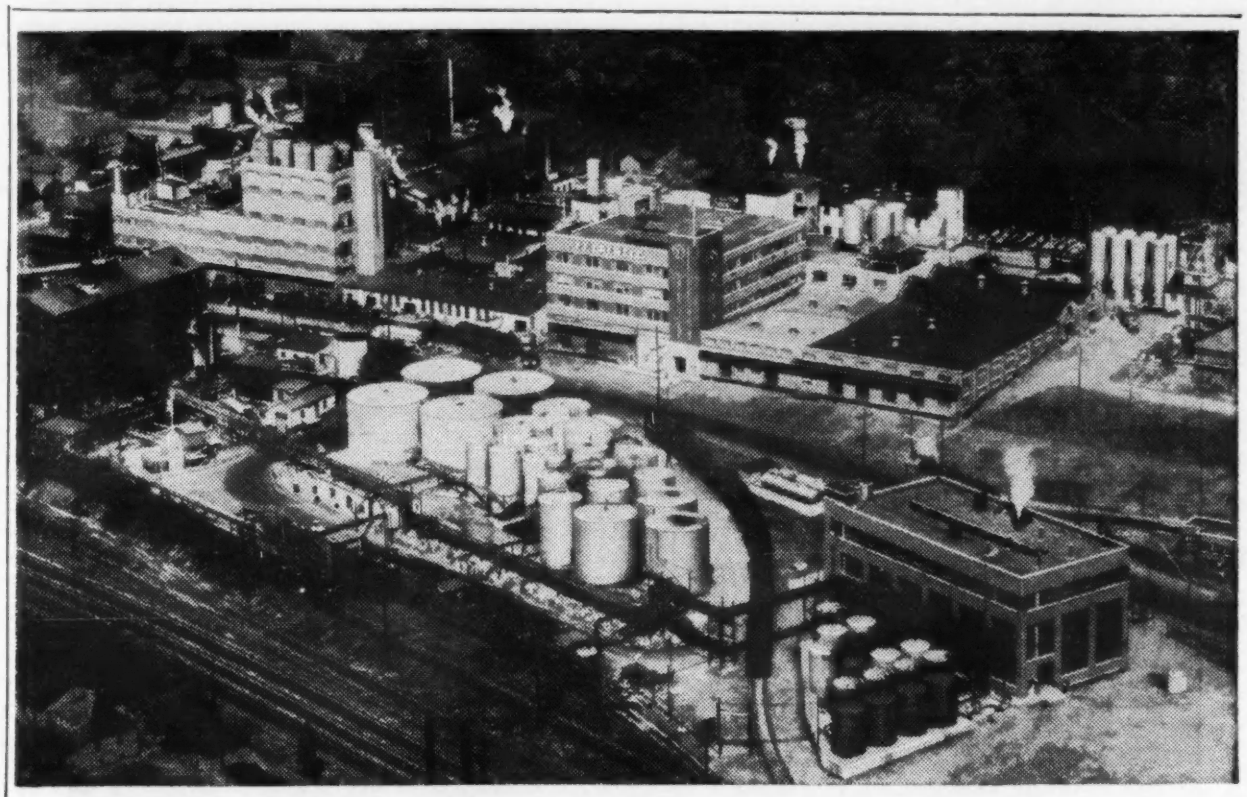
Monoethylamine, dms., c.l., frt. alld, basis 100% lb. .21½- —
l.c.l., same basis lb. .22½- —
tanks, same basis lb. .20 - —
Monomethylamine, 25%-40%, dms., c.l., works, basis 100% lb. .35 - —
l.c.l., same basis lb. .35½- .36
tanks, same basis lb. .31 - —
Monomethylanilin, dms. works lb. .70 - —
Monononylnaphthalene, dms., c.l., works lb. .14 - —
l.c.l., works lb. .13 - —
tanks, works lb. .13 - —
Monosodium fluoroacetate (see Sodium fluoroacetate monobasic).
Monosodium glutamate (see Sodium glutamate, monobasic).
Phosphate (see Sodium phosphate, monobasic).
Monotertiarybutylmetacresol, dms., c.l., works lb. .50 - —
l.c.l., works lb. .51 - —
tanks, works lb. .49 - —
Morphine, cns. oz. 12.35 -12.40
Acetate, cns. oz. 9.85 9.90
Hydrobromide, cns. oz. 9.80 —
Hydrochloride, NF, cns oz. 9.90 —
Sulphate, USP, cns oz. 9.90 —
Morpholine, dms., c.l., works lb. .60½- —
l.c.l., works lb. .61 - —
tanks, works lb. .59 - —
Mountain ash berries, bgs lb. .65 - .75
Mullein flowers, cs lb. 1.15 - 1.20
Leaves, bls. lb. .16 - .18
Musk, nat., Tonquin, grains, bots. oz. 25.00 -30.00
synthetic—Ambrette, 100 lbs lb. 5.40 - —
25 lbs. lb. 5.50 - —
5 lbs lb. 5.65 - —
Ketone, 100 lbs. lb. 4.95 - —
25 lbs. lb. 5.05 - —
5 lbs lb. 5.20 - —
Xylol, 100 lbs lb. 1.40 - —
25 lbs lb. 1.45 - —
5 lbs lb. 1.55 - —
Musk root, bls lb. No prices.
Mustard seed, Calif., brown, f.o.b. source lb. .07½- .08
Danish, bgs., futures lb. .11½- .12
Dutch, yellow, bgs., futures lb. .12 - .12½
English, yellow, bgs lb. .11½- .12
Montana, brown, bgs., source, lb. .05¼- .05½
Oriental, bgs., source lb. .07 Nom.
yellow, bgs., source lb. .10 - .10½
Washington, yellow, source, bgs. lb. .11 - .11½
Myrobalans, J1, assorted, ex dock ton. 52.00 - —
crushed, ex dock ton. 76.50 - —
J2, ex dock ton. 42.00 - —

## N

Naphtha, painters (see Petroleum naphtha, V. M. & P.).
Solvent (see S).
Naphthalene, dom., crude, 74°, bgs., bbls., frt. equald lb. .05 - —
tanks, same basis lb. .0525- —
78°, bgs., c.l., works, frt. equald lb. .0635- —
l.c.l., same basis lb. .0660- —
bbls., c.l., same basis lb. .0635- —
l.c.l., same basis lb. .0660- —
78°, dms., c.l., same basis lb. .0750- —
l.c.l., same basis lb. .08 - —
tanks, same basis lb. .0575- —
refined, industrial, bbls., c.l., frt. equald lb. .10 - —
bgs., c.l., same basis lb. .09½- —
tanks, same basis lb. .09 - —
balls, flakes, wholesalers, jobbers, 50-lb. cs., c.l., same basis lb. .12¼- —
bbls., c.l., same basis, lb. .12 - —
1-lb. pkgs., c.l., same basis lb. .14 - —
imported, crude, 78°, 100-ton lots lb. .03¼- —
Neocinchophen, USP, dms., frt. adjusted lb. 7.00 - 7.35
Nepheline syenite, glass, 24 mesh, bulk, Rochester, N. Y ton. 14.25 - —
pottery, 200 mesh, bulk, Rochester, N. Y ton. 18.25 - —
Nepheline syenite in bgs., $3 per ton higher than bulk.
Nerolin, cns lb. 2.00 2.25
Niacin (see Acid, nicotinic).
Niacinamide (see Nicotinamide).
Nickel acetate, bbls., dlvd lb. .50 —
Carbonate, bbls., dlvd lb. .48 .50
Chloride, bbls., dlvd lb. .23 - —
Cyanide, bots., dms lb. 1.75 - 2.00
Formate, bbls., ton lots, dlvd lb. .43½- —
Metal, electro cathodes, cs lb. .40 - —
Nitrate, bbls., works lb. .24½- .25½
Oxide, black, bbls lb. .42 - —
Sulphate, bgs., c.l., dlvd lb. .18 - —
l.c.l., dlvd lb. .18½- —
Nicotinamide, USP, dms., frt. adjusted kilo. 11.00 -11.30
Hydrochloride, dms., frt. adjusted kilo. 10.50 -10.80
Nicotine sulphate, 40%, 50-lb. dms., dealers, frt. alld. over 70 lbs., dm. 49.40 - —
tins, 10 lbs., dealers, frt. alld. on cases of 6 tin. 10.85 - —
Nikethamide, bots., cbys lb. 5.50 - 6.00
Nitercake, bulk, works ton. No stocks.
tanks lb. .08 .08½
Nitrobenzene, dbl. dist., dms., c.l lb. .09 - .09½
l.c.l. lb. .10 .11
tanks lb. .08 - .08½
Nitrocellulose, ester soluble, 30-35 cps., ¼, ½, ¾, 5-6, 15-20, 30-40, 60-80 and 125-175 secs., bbls., c.l., works, dry weight lb. .28 - —
l.c.l., same basis lb. .29 - .31
18-25 cps., 250-400 sec., and 600-1,000 secs., bbls., c.l., same basis lb. .30 - —
l.c.l., same basis lb. .31 - .33
spirit-soluble, 30-35 cps, ¼, ½, 5-6 and 40-50 secs., bbls., c.l., same basis lb. .32 - —
l.c.l., same basis lb. .33 .35
Denatured alcohol used in the manufacture of nitrocellulose is charged extra. Drums extra, but returnable.
Nitroethane, dms., works lb. .30 —
Nitrogen solution, tanks, work., N. ton. 120.00 -126.23
Nitrogenous process tankage, bulk, works, ammo., ship't unit-ton. 3.70 4.10
Sewage sludge, bulk, works, unit ton. 3.25 + .40
Nitromethane, dms., l.c.l., works lb. .30 - —
Nitropropane, 1, dms., works lb. .30 - —
2, dms., works lb. .30 - —
Nonylphenol, dms., c.l., works lb. .26 - —
l.c.l., works lb. .27 - —
tanks, works lb. .25 - —
Nutgalls, Aleppo, bgs lb. .43 —
Chinese, bgs lb. .38 —
Istrian, bgs lb. .31 —
Nutmeg, East Indian, bgs lb. .50 - .51
futures, bgs lb. .48 - .49
West Indian, bgs lb. .29 - .29½
futures lb. .30 - .30½
Nux vomica, bls. lb. .10 - .12
powdered, bbls., bxs lb. .13 .14
Oakbark extract, 25% tannin, bbls., c.l., works lb. No stocks

## O

Octane, 100°-140° C, industrial grade, group 3, dms., c.l. gal. .19 - —
l.c.l. gal. .21 - .60
tanks gal. .15½- —
100° C, Bayonne, N. J., tanks gal. .16 - —
Octanol, normal, tech., dms., c.l., dlvd lb. .34½- —
l.c.l., dlvd lb. .36½- —
tanks, dlvd lb. .32 - —
Octyl methacrylate, normal, dms., less than truckload, works. lb. .83 - —
Oil, abies siberica, cns lb. 3.50 - 5.50
Almond, artificial, bitter, (see Benzaldehyde)
natural, bitter, F.P.A., bots lb. 3.40 - 5.00
NF, bots lb. 3.50 - 3.60
Sweet, dms., cns lb. .70 - .95
Amyris, dms lb. 1.55 - 1.95
Angelica root, bots lb. 105.00-190.00
Seed, bots lb. 80.00 -100.00
Anilin (see A).
Anise, USP, Chinese, dms lb. 1.35 - 1.70
Apricot kernel, USP, dms lb. .44 - .60
Avocado, cns., dms lb. 1.00 1.10
Babassu, crude, tankcars lb. .18¼- —
Bay, NF, Puerto Rican, 50-55%, cns lb. 1.20 1.50
55-60%, cns. lb. 1.20 1.60
West Indian, 50-55%, cns lb. 1.20 1.60
Bergamot, artif., cns lb. 2.00 - 4.25
natural, Italian, cns lb. 4.40 - 5.00
Birchtar, crude, cns lb. .95 - 1.70
rectified, NF cns lb. 4.15 - 4.25
Bois de rose, Brazil lb. 3.00 - 3.60
Mexican (see Oil, lignaloe wood).
Bone, dms., works gal. .65 .70
Cajeput, tech., dms lb. 1.65 - 2.00
redistilled, USP, cns lb. 2.20 - 4.50
Calamus, cns lb. 20.00 -36.00
Camphor, sassafrassy, dms lb. .23 - .50
white, dms. lb. .24 - .40
Oil, cananga, native, cns lb. 1.75 - 4.00
rectified, cns lb. 3.50 - 5.50
Capsicum (see Capsicum oleoresin).
Caraway, NF, cns lb. 3.65 - 6.50
Cardamom, NF, bots lb. 50.00 -80.00
Cassia, USP, cns lb. 2.05 - 3.00
Castor, blown, dms., c.l. lb. .20¾- —
dms., l.c.l. lb. .21¼- —
dehydrated, bodied, dms., c.l lb. .22½- —
l.c.l. lb. .23 - —
tanks lb. .21½- —
unbodied, dms., c.l lb. .21½- —
l.c.l. lb. .22 - —
tanks lb. .20½- —
hydrogenated, dms., c.l., works, lb. .27 - —
l.c.l., same basis lb. .28 - —
No. 3, tech., dms., c.l lb. .17½- —
l.c.l. lb. .18 - —
tanks lb. .16½- —
sulphonated, 50% (48% fat), dms lb. .12 - .14
75% (60-62% fat), dms lb. .15¾- .16¾
tech., No. 1, Braz., tanks lb. .16 - —
USP, standard, dms., c.l lb. .18¾- —
l.c.l. lb. .19¼- —
tanks lb. .17¾- —
refined and deodorized, dms., c.l. lb. .20¼- —
l.c.l. lb. .20¾- —
Cedarleaf, USP, dms lb. 1.75 - 1.95
Cedarwood, cns lb. .42 - .55
dms. lb. .32 - .50
Celeryseed, bots lb. 15.00 -18.50
Chaulmoogra, NF, cns., dms lb. .53 70
Chinawood (see Oil, tung).
Cinnamon bark, bots lb. 29.00 -32.00
Leaf, Ceylon lb. 1.50 1.75
Citronella, Ceylon, cns lb. 1.10 - 1.55
Java, and Java-type, cns lb. 1.75 - 2.10
Clove, USP, cns., dms lb. 1.45 - 1.60
Oil, coconut, crude, tanks, Atlantic ports lb. .15½- —
Pac. Coast lb. .14½- —
refined, Cochin type, tax incl., dms., l.c.l lb. .22½- —
deodorized, tax incl., dms., l.c.l. lb. .23 - —
Cod, Newfoundland, dms lb. .08½- .09¼
Codliver, USP, dms gal. 1.40 - 1.55
Coriander, bots lb. 24.50 -35.00
Corn, crude, tanks, works lb. .13⅝- —
foots, acid, 95%, tanks, dlvd. E lb. .04½- —
raw, 50%, tanks, dlvd. E lb. .01½- —
refined, dms., New York lb. .18½- .19
tanks lb. .16½- —
Costus, bots. oz. 32.50 - —
Cottonseed, crude, tanks, Southeast and Valley lb. .12¾- .13
foots, acid 95%, tanks, dlvd. E lb. .03 - —
raw, 50%, tanks, dlvd. E lb. .01 - —
refined, dms. lb. .17¾- .18¼
tankcars lb. .16 - —
Creosote (see Creosote, coaltar).
Croton, NF, cns lb. 4.75 - 5.50
Crude (see Petroleum, crude).
Cubeb, cns. lb. 7.00 - 7.50
Cumin, bots lb. 6.25 - 7.50
Cypress, bots. lb. 11.00 -15.00
Degras (see D).
Dillseed, bots lb. 7.00 - 9.50
Dillweed, bots., dms lb. 5.65 - 6.50
Dip (see D).
Erigeron, cns lb. 5.00 - 5.25
Eucalyptus, rectified, USP, 80-90%, cns lb. .67 - 1.45
70-80%, cns. lb. .55 - 1.30
Fennel, sweet, cns lb. 2.50 - 3.00
Fir, Canada, cns lb. 2.00 - 2.05

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***FATTY ACIDS AND PLASTICIZERS***

Crude, White Distilled, Fractionated Fatty Acids of:

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| Coconut Oil | Corn Oil | Tallow |
| Linseed Oil | Cottonseed Oil | Hardened Tallow |
| Soya Bean Oil | | Marine Oils |

Stearic Acid and Plasticizer SC

***TEXTILE OILS AND SPECIALTIES***

| | | |
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| Detergents | Softeners | Scouring Compounds |
| Wetting Agents | Dye Assistants | Sulphonated Oils |
| Finishes | Yarn Lubricants | Wool and Worsted Oils |

*TECHNICAL PRODUCTS DIVISION*

**E. F. DREW & CO., INC.**

15 EAST 25th STREET, NEW YORK 10, N. Y.

CHICAGO PHILADELPHIA BOSTON GREENVILLE, S. C.

DREW PRODUCTS

## Oil, Fishliver—Oil, Wintergreen

**Oil,** fishliver, crude, for feeds or concentrating, 6,000 to 12,000 A units, dms
1,000,000 units. .10 - .12
15,000 to 20,000 A units, dms
1,000,000 units. .12 - .13½
25,000 to 35,000 A units, dms.
1,000,000 units. .13½- .15
40,000 to 55,000 A units, dms
1,000,000 units. .14½- .16
Market prices on crude fishliver oil dependent upon conversion factor.
prime, natural, or concentrate, 100,000 A units, dms.
1,000,000 units. .19 - —
200,000 A units, dms
1,000,000 units. .20 - —
300,000 A units, dms
1,000,000 units. .23 - —
400,000 A units, dms
1,000,000 units. .24 - —
500,000 A units, dms
1,000,000 units. .26 - —
Fuel (see Petroleum fuel oil).
Fusel (see F).
Garlic, pure, bots oz. 9 00 -15.00
Gautheria (see Oil, wintergreen).
Geranium, Algerian, cns lb.14.75 -16.25
Bourbon, cns lb.17.00 -20.00
Turkish (see Oil, palmarosa)
Ginger, dist., bots lb.23.00 -28.00
Grapefruit lb. .65 - 1.25
Grease, No. 1, dms lb. .12¼- .12¾
extra, Winter, strained, dms.lb. .13 - .13½
prime, burning, dms lb. .14½- .15
Guaiacwoo, cns lb. 1.85 - 1.90
Hemlock, cns lb. 1.75 - 2.75
Herring, crude, tanks, Pac. coast. lb. No prices.
Oil, juniper berry, NF VIII, bots lb. 3.15 - 7.00
twice rectified lb. 4.85 - 5.25
Tar, USP (see Juniper tar).
Wood, tech., cns lb. .65 - 1.00
Lard (see Oil, grease).
Laurel, bots. lb. 9.75 -12.50
Lavandin, cns. lb. 1.40 - 1.85
Lavender flower, French, 40-42% ester, cns lb. 4.15 - 4.75
38-42% ester, cns lb. 3.20 - 4.10
30-32% ester, cns lb. 2.20 - 3.25
Spike, Spanish, cns lb. .90 - 1.75
Lemon, USP, Calif., cns lb. 2.95 - 3.25
Messina lb. 2.85 - 5.00
terpeneless, bots lb.32.00 -65.00
Lemongrass, cns., dms lb. 2.25 - 3.00
Lignaloe seed, Mexican, cns lb. 4.50 4.80
Wood, Brazilian (see Oil, bois de rose).
Mexican, cns lb. 3.35 - 5.20
Lime, distilled, Mexican, cns lb. 5.40 - 6.50
West Indian, cns lb. 6.00 - 7.50
expressed, West Indian, cns lb. 7.25 -11.25
terpeneless, bot lb.45.00 -65.00
Linseed, raw, dms., c.l., Zone 3. lb. .1850- .1870
l.c.l. lb. .1910- .1950
tankcars lb. .1730- .1750
tankwagon lb. .1760- .1780
Boiled linseed oil .007 higher than raw
Lubricating, at refinery, ex tax, Group 3, bright stock, 150-160 vis., 10-25 p.p. tanks. gal. .255 —
neutral, 300 vis., No. 3, col., 0.10 pour, tanks gal. .21 .29
300 vis., No. 3, col., 15-25 pour, tanks gal. .18 .19
145-155 vis., No. 3, color, 10-25 pour, tanks gal. .285 —
Oil, lubricating, at ref'y, ex tax, Penna., W, cylinder, 600-650 flash, tanks gal. .33 - —
600-650 steam refd., tanks. gal. .37 - —
neutral, 70°F, No. 3 color, 150 vis., 25 pour, tanks. gal. .37 - .39
200 vis., 25 pour, tanks. gal. .39 - .41
South Texas, neutral, pale, 200 vis., 2¼-4 pour, tanks. gal. .11 - .12
red, 200 vis., 4-6½ pour, tanks gal. .11 - .12½
Mace, dist., cns., dms lb. 3.45 - 3.85
Mandarin, Brazilian, cns lb. 9.25 - —
Floridian, dms. lb. 1.60 - —
Italian, cns. lb. 5.50 - 6.00
Menhaden, crude, tanks, Balto. lb. .06½- .07
refined, alkali, dms lb. .1180- —
kettle-bodied, dms lb. .1330- —
light-pressed, dms lb. .1080- —
tanks lb. .0920- —
Mineral, white (see Oil, white, mineral).
Mirbane (see Nitrobenzene).
Mustard seed, expressed, dms lb. .18 - .19
synthetic, cns., dms lb. 1.40 - 1.70
Neatsfoot, 15°, dms lb. .28 - .28½
20°, dms. lb. .27 - .27½
30°, dms. lb. .21 - .21½
Neroli, French, bots lb.85.00 -300.00
Haitian, bots lb.175.00 -200.00
Niaouli, cns lb. 2.30 - 3.25
Nutmeg, dist., East Indian, cns., dms lb. 3.60 - 3.85
West Indian, cns., dms lb. 3.50 - 4.35
Ocotea cymbarum, dms lb. .75 - 1.00
Oiticica, liquid, drums lb. .21 - .22
tankcars lb. .20 - .21
Oleo, extra, dms lb. .12½- —
Oil, Olibanum, bots lb. 4.50 - 7.65
extra fine, bots lb. 6.25 - 8.50
Olive, commercial, dms gal. 1.75 - 1.85
edible, dms., duty paid gal. 2.50 - 2.75
foots, dms lb. .13 - .13¼
Orange, sweet, natural, dist., cns., lb. .25 .60
expressed, USP, Brazilian, cns lb. .85 - 1.25
Calif., cns. lb. .60 - 1.00
Florida, cns., dms lb. .42 - 1.00
Messina, coppers lb. 2.45 - 5.50
West Indian, cns lb. 1.95 - 2.50
sesquiterpeneless, bots lb.55.00 -135.00
Origanum, Spanish, cs lb. 2.50 - 3.50
Palm, Congo, dms lb. .1295 Nom.
tankcars lb. .11½ Nom.
Palmarosa, cns. lb. 7.75 - 9.00
Palmkernel, crude, bulk, c.i.f. NY lb. No prices.
Paraffin, pale, 100-110 vis. at 100° F. tanks, East Coast refinery gal. .11½- —
Patchouli, dms lb.22.00 -22.50
Peach kernel, USP (see Oil, apricot kernel).
Peanut, crude, tanks, Southeast. lb. .15 - —
refined, dms lb. .19¾- .20¼
tanks, New York lb. .18 - —
Pennyroyal, USP, dom., cns. lb. No stocks.
imported, cns lb. 4.60 - 5.50
Peppermint, natural, dms lb. 6.25 - 6.40
redist., USP, dms lb. 6.50 - 7.00
Persic, USP (see Oil, apricot kernel).
Perilla, crude, cms lb. No stocks.
Petitgrain, Paraguay, cns lb. 2.05 - 2.50
Pimento berry, dms lb. 3.85 - 5.75
leaf, cns lb. 1.55 - 1.95
Pine, dest.-dist., dms., incl., c.l., works, South gal. .60 - —
l.c.l., works, South gal. .61 - —
ex whse., N. Y. C. gal. .72 - —
steam-dist., dms., ex whse., nonret. dms., incl., l.c.l., ex whse., N.Y.C. lb. .09½- —
Pineneedle, Siberian (See oil, abies siberica).
Putty, petroleum, dms., c.l., dlvd. lb. .11 - —
l.c.l., same basis lb. .12 - —
tanks, same basis lb. .10 - —
Rapeseed, tankcars lb. .15½ Nom.
Red, single dist., dms lb. .13 - .14
tanks lb. .11¾- —
saponified, dms lb. .12¼- .13¾
double dist., dms lb. .15½- .16
tanks lb. .14¼- —
Rice bran, clarif., dms lb. .14 - .14½
tanks lb. .12½- —
Rose, natural, Bulgarian, coppers oz.24.00 -36.00
Rosemary, Spanish, tech., cns., dms lb. .75 - 1.50
USP, cns., dms lb. .95 - 1.60
Rue, bots lb. 2.75 - 3.50
Sage, clary, bots. lb.13.50 -16.00
Dalmatian, cns lb. 4.50 - 5.50
Spanish, cns. lb. 1.00 - 3.50
Sandalwood, NF, cns. lb.11.50 -16.30
Sardine, crude, tanks, Pac. coast lb. .06¾- —
refined, alkali, dms lb. .1180- —
kettle-bodied, dms. lb. .1330- —
light-pressed, dms. lb. .1080- —
tanks lb. .0920- —
Sassafras, artificial lb. .58 - .78
natural, Brazilian (see Oil, ocotea cymbarum).
domestic, USP, cns., dms lb. 1.80 - 2.30
Savin, cns lb. 2.75 - 3.00
Savory, cns lb. 8.00 - —
Seal, 2% acid, duty extra, dms lb. .13 - —
Sesame, ref., dms., l.c.l lb. .31 - —
Shingle stain, bbls., c.l., works, gal. .27 - —
l.c.l., works gal. .30 - —
tanks, works gal. .19 - —
Snakeroot, Canada, cns lb.18.75 -25.00
Soybean, crude, tanks, mills lb. .12¾- —
foots, acid, 95%, tanks, dlvd. E lb. .05⅝- —
raw, 50%, tanks, dlvd. E lb. .02½- —
refined, alkali, dms., c.l. lb. .1385- —
l.c.l. lb. .1645- .168$
tanks lb. .1465- —
clarified, dms., c.l. lb. .1495- —
l.c.l. lb. .1555- .159$
tanks lb. .1365- —
edible, dms lb. .16 - .16½
tanks lb. .15 - —
Spearmint, dms lb. 3.15 - 5.50
Sperm, bleached, winter, 45°, drums lb. .1620- .1670
tankcars lb. .1520- —
natural, winter, 45°, dms lb. .15 - .15½
tankcars lb. .14 - —
Spruce, cns., dms lb. 1.75 - 2.75
Sunflower-seed, unp., refined, tanks lb. No prices.
semi-refined, tanks lb. No prices.
Sweet birch, Northern, cns lb. 4.50 - 7.50
Southern, cns. lb. 1.95 - 3.65
Tall, crude, tanks, works ton.40.00 - —
refined, dms., c.l., works lb. .06 - —
l.c.l., works lb. .06¼- —
tanks, works lb. .05 - —
Tallow, acidless, dms lb. .12 - .12½
Tansy, dms. lb. 8.75 - 9.00
Tar, pine, coml., dms., incl., c.l., works, South lb. .045 - —
l.c.l., works, South lb. .0473- —
whse., N.Y.C. lb. .0595- —
tanks, works, South lb. .035 - —
rectified, NF, l.c.l., dms., incl., works, South gal. .60 —
Tar acid (see T).
Teaseed, dms. lb. No stocks.
Theobroma (see Cocoa butter).
Thyme, NF, red, cns lb. 2.05 - 3.25
white, cns lb. 2.30 - 3.80
technical, white, cns lb. .40 - 5.00
Tung, dom., tanks, mills lb. .25½- .25¾
imported, dms., c.l. lb. .27½- .27¾
l.c.l. lb. .28 - —
tanks lb. .26½- .26¾
Turkey red (see Oil, castor, sulphonated).
Turpentine, rectified, NF, cns., dms. lb. .21 - .35
Vetiver, Bourbon, cns lb.13.25 -15.00
Haitian, cns. lb.10.00 14.00
Java, cns. lb. No prices.
Whale, ref., natural, dms lb. No stocks.
Winter-bleached, dms lb No stocks.
Wheat germ, 5-gal. dms gal.10.00 -13.00
White mineral, tech., 50-65 vis., dms., c.l., N. Y. gal. .43 - —
l.c.l., same basis gal. .48 - —
65-75 vis., dms., same basis, gal. .44 - —
l.c.l., same basis gal. .49 - —
USP, 80-90 vis., dms., c.l., same basis gal. .45 - —
l.c.l., same basis gal. .50 - —
125-135 vis., dms., c.l., same basis gal. .53 - —
l.c.l., same basis gal. .58 - —
145-155 vis., dms., c.l., same basis gal. .60 - —
l.c.l., same basis gal. .65 - —
175-185 vis., dms., c.l., same basis gal. .62 - —
l.c.l., same basis gal. .67 - —
200-210 vis., dms., c.l., same basis gal. .65 - —
l.c.l., same basis gal. .70 - —
335-345 vis., dms., c.l., same basis gal. .69½- —
l.c.l., same basis gal. .74½- —
Wintergreen, nat., Northern, cns. lb. 7.00 -14.50
Southern, cns. lb. 3.65 -18.50
synthetic (see Methyl salicylate).

*Flavor* is the thing that makes your product stand out from others. And Exchange Oil of Orange *has* the flavor...that distinctive and preferred taste unique to oranges grown in the sunny, sheltered valleys of California.

Try Exchange Oil of Orange for yourself. Give it all your tests for *quality, uniformity* and *strength.* You'll like it...and you'll buy it!

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PRODUCTS DEPARTMENT, ONTARIO, CALIF.
*Producing Plant:*
**The Exchange Orange Products Co., Ontario, Calif.**

Oil, wood (see Oil, tung).
Wormseed, NF, cns lb. 4.00 - 4.25
Wormwood, cns lb. 7.00 - 7.50
Ylang-ylang, Bourbon, bots lb. 8.25 11.50
extra, bots lb. No prices.
Madagascar, bots lb. No prices.

Olein crude (see Oil red).
white, low titre, dms lb. .15½- .16½
tankcars lb. .14¼- —
Oleostearin, bbls. lb. .09¼- —
Olivine, aggregate, c.l., mines ton. 7.00 9.50
crushed, 8 mesh, bulk, c.l., works ton. 10.00 —
paper bgs. c.l. works ton. 12.00 —
Opium, USP, cns. lb. 19.20 -19.45
gran., USP, cns. lb. 21.65 -21.90
powd. USP cns. lb. 21.65 -21.90
Orange cadmium lithopone, bbls. frt. alld. E. of Rockies lb. 1.10 —
Chrome, CP, bbls., dlvd. N. of Tenn. and N. C., E. of Miss. R., includ. Davenport, Tenn. and N. C., E. of Minneapolis, Rock Island St. Louis St. Paul lb. .25 - —

Chrome orange prices are ½c. higher, dlvd Ala., Fla., Ga., La. (Shreveport); 1¼c Miss., N. C., S. C., Tenn., Dallas and Ft. Worth, Tex.; 1½c. El Paso, Tex.; 2c. Cedar Rapids, Des Moines, Kansas City, Lincoln, Omaha, St. Joseph; 1.6c. higher dlvd. Pac. Coast; for Denver, Pueblo, Salt Lake City, Wichita, prices are equalized with Chicago

Chrome dinitroanilin toner lb. 1.15 —
Mineral, American, bbls., l.c.l., ship't point, frt. alld lb. .1810- —
Molybdate lb. .40 - —
Persian, bbls lb. .30 - .45
Orange flowers, nls lb. .40 .45
Orange peel, bitter, Haitian, bls lb. .13 - .15
Sweet, bls lb. .13 - .17
Oregano, Mexican, bgs lb. .17 - .18
Portuguese, bgs lb. .18 .18½
Sicilian, bgs lb. .18 .19
Orris root, Florentine, bls lb. .20 .25
powdered, bbls., bxs lb. .26 .29
Veron, bls lb. .16 .21
powdered, bbls., bxs lb. .22 .23
Orthoaminobiphenyl, dms., c.l., works lb. .32½- —
l.c.l., same basis lb. .33 - —
tanks, same basis lb. .31 - —
Orthoanisidin bbls lb. .80 - —
Orthochloroanilin dms. 10,000 lbs. or more lb. .60 - —
smaller lots lb. .70 - —
Orthochloroparanitroanilin, dms., works lb. .65½- —
Orthochlorophenol, dms., c.l., frt. equald lb. .27 —
l.c.l., same basis lb. .28 —
Orthocresol, pure, 30° C, non-ret., dms., c.l., frt equald. lb. .1930- .2403
l.c.l., same basis lb. .1960- .2433
ret. dms., c.l., same basis lb. .1900- —
l.c.l., same basis lb. .1930- —
29° C, non-ret. dms., c.l., same basis lb. .1830- .2303
l.c.l., same basis lb. .1860- .2333
ret. dms., c.l., same basis lb. .1800- —
l.c.l., same basis lb. .1830- —
25 to 27° C, non-ret. dms., c.l., same basis lb. .1630- .2030
l.c.l., same basis lb. .1660- .2110
tanks, same basis lb. .1500- .1930
Orthodichlorobenzene, 50-lb. cns lb. .12½- —
100-lb. cns lb. .11½- —
dms., c.l., works, frt. alld. E. of Rockies lb. .08½- —
l.c.l., same basis lb. .09½- —
tanks, same basis lb. .07 - —
Orthodichlorobenzene prices W of Rockies 1c. per lb higher
Orthoisopropyl N-phenylcarbanate (see IPC).
Orthoisopropylphenol, dms., c.l. lb. .29 —
l.c.l. lb. .30 —
tanks lb. .28 —
Orthonitroanilin, dms lb. .56 .59
Orthonitrochlorobenzene, dms lb .17 .18
Orthonitrobiphenyl, tech., dms., c.l., works lb. .19½ —
l.c.l., works lb. .20 —
tanks, works lb. .18 —
Orthonitroparachlorophenol, cns lb. .75 —
Orthonitrophenol, dms lb. .66 .77
Orthonitrotoluene, dms. lb. .12 —
Orthophenetidin, dms., works lb. .90 —
Orthotoluidin, dms., c.l., works lb. .19 - —
l.c.l., same basis lb. .20 - —
tanks, same basis lb. .18 - —
Osage orange crystals, bbls., l.c.l lb. .33½- —
extract, liquid, bbls., l.c.l lb. .15½- —
Orthotolidin, distilled, kgs lb. 1.10 —
Ouabaine, USP, bots gram. 3.00 4.00
Ox gall, conc., gran., bb. dms., 5 lbs. and up lb. 2.50 —
Oxyquinolin sulphate, cns., 100 lbs. works lb. 4.25 —
smaller lots, works lb. 4.40 - 4.51

## P

Pancreas substance, assay 1:75 lb. 5.75 6.25
Pancreatin, USP lb. 2.50 3.00
Panthenol, bots., works, frt. adjust. kilo 90.00 —
Papain, powd., NF, cs lb. 1.75 - 2.50
Papaverine, natural or synthetic, hydrochloride, USP, cns., 1,000-oz. lots oz. 5.00 —
smaller lots oz. 5.05 5.20
Sulphate, cns oz. 7.10 7.35
Paprika, Chilean, bgs lb. .26 - .27
Portuguese, bgs lb. .39 .40
Spanish, bgs lb. .44 - .50
Paracanisidin, dms., works lb. .80 —
Parachlorophenol, dms., c.l., frt. equald lb. .27 —
l.c.l., same basis lb. .28 —
Parachloroanilin, dms., frt. alld. E. Miss lb. .70 —
Parachloro-orthonitroanilin, dms. lb. .63 - —
Paracresol, 98%, dms., works lb. .50 .65
Paracymene, dms., works, 50 gals. or more gal. 2.50 —
smaller quantities gal. 3.00 - —
Paradibromobenzene, bgs., 500-lb. lots. lb. .45 - —
Paradichlorobenzene, dms., c.l., works lb. .11 - —
l.c.l., same basis lb. .12½- .14
Paraffin, crude, scale, white or yellow, 119-121 ASTM, bbls., c.l., refinery lb No prices.
121-123 ASTM, bbls., c.l., ref'y lb. No prices.
126-128 ASTM, bbls., c.l., ref'y lb. No prices.
fully ref'd, slabs, 120-122 ASTM, loose, c.l., ref'y lb. .0635- —
122-124 ASTM, loose, c.l., ref'y. lb. .0635- —
125-127 ASTM, loose, c.l., ref'y. lb. .0635- —
128-130 ASTM, loose, c.l., ref'y lb. .0640- —
130-132 ASTM, loose, c.l., ref'y. lb. .0645- —
132-134 ASTM, loose, c.l., ref'y. lb. .0660- —
135-137 ASTM, loose, c.l., ref'y lb. .0705 —
Paraffin prices in bgs and ctns., 7/10c per lb higher; 1,000 to 9,999 lbs., 2.7c. per lb higher and under 1,000 lbs., 3.7c. per lb higher.

Paraformaldehyde, 94-95%, powd., dms., c.l., frt. alld. lb. .13 - .16¾
10,000 lbs. to c.l., frt. alld. lb. .14 - .16¾
1,000-9,999 lbs., frt. alld. lb. .15 - .17¾
less than 1,000 lbs., frt. alld. lb. .17 - .19¼
91-92%, flake, fib. dms., c.l., works. lb. .11 - —
10,000 lbs. or more, works. lb. .12 - —
smaller lots, works lb. .13 - .15
Paraldehyde, tech., 98%, 55 gals., dms., l.c.l., works lb. .12½ .13¼
5-10-gal. dms., l.c.l., works lb. .16½- —
tanks, works lb. .10½- —
USP, cbys lb. .51 .53
Paranitroanilin, kgs., works lb. .44½- —
Paranitrochlorobenzene, kgs., works. lb. .18 - —
Paranitrophenol, kgs., works, frt. equald lb .40 - —
Paranitrotoluene, kgs., works lb. .30 - —
Paraphenetidin, dms., works lb. .80 - —
Paraphenylphenol, bgs works lb 23 .29
Paraphenylenediamine, redistilled, dms., works lb. 2.00 - —
technical, refined, dms., same basis lb. 1.25 - 1.35
Paratertiarybutylphenol, bgs., c.l., frt. equald lb .21 - —
l.c.l., same basis lb. .22 - —
Parathion, tech., dms., works lb. 1.50 2.50
spray powder, 15%, tins, dealers. lb. .72 - —
Paratoluenesulphonamide, bbls., works lb. .70 —
Paratoluidin, bbls., works lb .55 —
Paretra brava root, whole, bgs lb .30 .31
ground, bxs lb .35 .37
powder, bxs lb. .38 .40

Paris green, dealer, distributor, dms., dms., c.l., works, frt. alld. on 96 lbs. or over lb. .33 - .37
l.c.l., same basis lb. .34 - .66
Passion flower herb, bls lb 40 45
Patchouli leaves, bls lb No stocks.
Peanut meal, 45%, sacked, mill- ton. 59.00 -60.00
Pectin, citrous, NF, powd., bbls lb 2.05 2.06
tech., powd., bbls lb 1.42 1.43
Penicillin, crystalline, potassium, unlabeled, vials, 100,000 units vl. .102 - —
200,000 units vl. .15½- —
500,000 units vl. .28 - —
1,000,000 units vl. .52 - —
2,000,000 units vl. 1.00 - —
bulk, sterile, over 25,000,000,000 unit lots 100,000 units. .04 - —
tablet grade, over 25,000,000,000 unit lots 100,000 units. .03½- —
procaine, bulk, over 25,000,000,000 unit lots 100,000 units. .04½- —
sodium, unlabeled vials, 100,050 units vl. .10¾- —
200,000 units vl. .16 - —
500,000 units vl. .30½- —
1,000,000 units vl. .57 - —
2,000,000 units vl. 1.03 - —
bulk, over 25,000,000,000 unit lots 100,000 units. .04½- —
Pennyroyal leaves, bls lb. .40 - .45
Pentachlorophenol, dms., c.l., works, frt. equald lb. .20 —
l.c.l., same basis lb. .23 .28
truckload, 20,000 lbs., min., same basis lb. .20¼- —

## Oil, Wood—Perchloroethylene

Pentaerythritol, tech., bgs., c.l., works lb. .29 —
l.c.l., works lb. .31 - .33
Di and tri-isomers (see Dipentaerythritol and Tripentaerythritol)
Pentane industrial, tanks, group 3 gal. .10½ .11½
Pepper, black lb. 1.47 - 1.48
Feb. arrival lb. 1.47 - 1.48
March lb. 1.47 - 1.48
Mar.-May lb. 1.47 - 1.48
Red, Carolina, longs, bgs lb. .41 - .42
Haitian, bgs lb. .62 - .63
Hontaka, bgs lb. .62 - .63
Louisiana longs, bgs lb. .41 - .41½
Mississippi sports, bgs., source lb. .55 - .55½
Mombassa, bgs lb. No prices.
Nigerian caps, bgs., futures lb. .44 - .45
birdseye, bgs. lb. No prices.
White, bgs lb. 2.45 - 2.50
Peppermint, USP, dom., bls lb. .50 70
imported, bls lb. .80 .90
Pepsin, NF bulk containers lb 3.90 —
Perchloroethylene, dms., c.l., or truckload, works, frt. equald. lb. .10¼- —
l.c.l., same basis lb. .11 - —
tanks, same basis lb. .09¾- —
dms., c.l., zone 1, works, frt. alld. lb. .11 - —
zone 2, same basis lb. .11½ —
zone 3, same basis lb 12 —
zone 4, same basis lb. .11½- —
l.c.l., zone 1, same basis lb. .11¾- —
zone 2, same basis lb 12¼ —
zone 3, same basis lb 12¾ —
zone 4, same basis lb. .12¼- —


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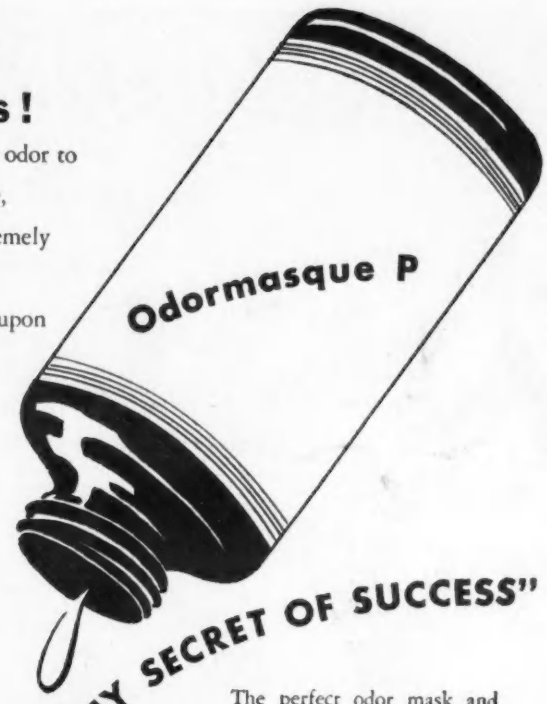

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## Perchloroethylene, Tanks, Zone 1—Phosphate Rock

| | | | |
|---|---|---|---|
| Perchloroethylene, tanks, zone 1, same basis | lb. | .10½- | — |
| zone 2, same basis | lb. | .11 | — |
| zone 3, same basis | lb. | 11½ | — |
| zone 4, same basis | lb. | .11 | — |

Perchloroethylene zones are.—(1) Conn., Del., Ill., Ind., Ia., Ky., Me., Md., Mass., Mich., Minn., Mo., Neb. (Omaha), Kans. (Kansas City), N. J., N. Y., N. C., Ohio, Pa., R. I., Tenn., Vt., Va., W. Va., Wis.; (2) Ala., Ark., Fla., Ga., Kansas, La., Miss., Neb., N D., Okla., S. C., S. D.; (3) Colo., Mont., (E) N. M., Tex., Wyo.; (4) Ariz., Cal., Idaho, Mont., (W), Nev., Ore., Utah, Wash.

| | | | |
|---|---|---|---|
| Peru balsam, dms | lb. | .90 | 1.10 |
| Petrolatum, USP, amber, dms., c.l., New York | lb. | .04⅞ | — |
| l.c.l., same basis | lb. | .05¾ | — |
| cream, dms., c.l., same basis | lb. | .06¾ | — |
| l.c.l., same basis | lb. | 08 | — |
| extra amber, dms., c.l., same basis | lb. | .05½ | — |
| l.c.l., same basis | lb. | .06 | — |
| white lily, dms., c.l., same basis | lb. | .06⅞ | — |
| l.c.l., same basis | lb. | .08¼ | — |
| snow, dms., c.l., same basis | lb. | .07⅛ | — |
| l.c.l., same basis | lb | .08⅛ | — |
| soft, dms., c.l., same basis | lb. | .06¾ | — |
| l.c.l., same basis | lb | .07½ | — |
| yellow, soft, dms., c.l., same basis | lb. | .05 | — |
| l.c.l., same basis | lb | .05⅞ | — |
| Petroleum, crude bulk, at wells, California | bbl. | 1.10 | 2.99 |
| Illinois | bbl. | 2.45 | 2.87 |
| Kentucky | bbl. | 2.42 | 2.63 |
| Louisiana-Arkansas | bbl. | 2.08 | 2.90 |
| Montana | bbl. | 1.26 | 2.775 |
| Oklahoma-Kansas | bbl. | 2.23 | 2.65 |
| Pennsylvania, lower field | bbl. | 3.54 | — |
| Upper field | bbl. | 2.84 | 3.54 |
| Texas, East | bbl. | 2.65 | — |
| Gulf coast | bbl. | 2.38 | 2.95 |
| North, North-Central | bbl. | 2.23 | 2.65 |
| Panhandle | bbl. | 2.23 | 2.65 |
| West | bbl. | 2.10 | 2.65 |
| Wyoming | bbl. | 1.28 | 2.875 |
| Ether, laboratory, 30°-60° C, cns., dlvd. E. | gal. | 1.50 | — |
| dms., c.l., group 3 | gal. | .26 | — |
| l.c.l., same basis | gal. | 44 | — |
| 35°-60° C, 10-gal. cns., dlvd. E. | gal. | 1.50 | — |
| dms., c.l., Group 3 | gal. | 26 | — |
| l.c.l., same basis | gal. | 44 | — |
| 40°-75° C, 10-gal. cns., dlvd. E | gal. | 1.50 | — |
| dms., c.l., Group 3 | gal. | 26 | — |
| l.c.l., same basis | gal | 44 | — |
| 60°-160° C, ret. dms., ex tax, f.o.b San Francisco | gal. | .57 | — |
| Fuel oil, bunker C, No. 6, California, heavy, tanks, refinery | bbl. | 1.25 | 1.55 |
| light, tanks, refinery | bbl. | 1.65 | 2.10 |
| eastern, tanks, Albany, N. Y. | bbl. | 2.35 | — |
| Baltimore, Md | bbl. | 1.93 | 2.08 |
| Boston, Mass. | bbl. | 1.95 | 2.10 |
| Charleston, S. C. | bbl. | 1.88 | 2.03 |
| Jacksonville, Fla. | bbl. | 2.02 | — |
| New York, N. Y. | bbl. | 1.90 | 2.15 |
| Norfolk, Va. | bbl. | 1.93 | 2.08 |
| Philadelphia, Pa | bbl. | 1.93 | 2.08 |
| Portland, Me. | bbl. | 2.13 | — |
| Providence, R. I. | bbl. | 2.075 | — |
| Savannah, Ga. | bbl. | 2.03 | — |
| Petroleum, fuel oil, diesel, tanks, refinery, California | gal. | .081 | .115 |
| Pennsylvania | gal. | .09 | .092f |
| Furnace, tanks, refinery, Arkansas, No. 2 | gal. | .0775- | — |
| No. 3 | gal. | .07375- | — |
| Bayonne, N. J., No. 2 | gal. | .078 | — |
| Group 3, No. 1 | gal. | .0825- | .08625 |
| No. 1, straw | gal. | .0825- | .08625 |
| No. 2, straw | gal. | .075 | .085 |
| range | gal. | .0825- | .0875 |
| Pennsylvania, western, No. 1 | gal. | .0925- | .10 |
| No. 2 | gal. | .0925- | .095 |
| No. 3 | gal. | .09 | .0925 |
| Lacquer diluent, California, 170-225 F, b.r., tanks, ex tax, f.o.b. Los Angeles | gal. | .147 | — |
| 255 F, b.r., tanks, ex-tax, Portland, Ore | gal. | .158 | — |
| San Francisco | gal. | .152 | — |
| Seattle, Wash | gal. | .158 | — |
| East coast, tanks, N. J. and N. Y. refinery | gal. | .16 | — |
| Group 3, benzol-type, tanks, refinery | gal. | .12125- | — |
| toluol-type, tanks, refinery | gal. | .11125- | .11375 |
| Mineral, spirits, California, 170-255 b.r., tanks, ex tax, f.o.b. San Francisco | gal. | .152 | — |
| 205-295 b.r., tanks, same basis | gal. | .152 | — |
| 245-360 b.r., tanks, same basis | gal. | .152 | — |
| 305-360 b.r., tanks, same basis | gal. | .142 | — |
| 312-400 b.r., tanks, same basis | gal. | .142 | — |
| 360-455 b.r., tanks, same basis | gal. | .153 | — |
| East coast, tanks, N. J., N. Y., refinery | gal. | .14 | — |
| group 3, tanks | gal. | .09875- | .10375 |
| Petroleum, mineral spirits, tankwagon, Baltimore | gal. | .175 | — |
| Boston | gal. | 16 | — |
| Buffalo | gal. | .165 | — |
| Camden, N. J. | gal | 15 | — |
| Chicago | gal. | 197 | — |
| Detroit | gal. | 214 | — |
| Kansas City, Mo. | gal. | 182 | — |
| Newark | gal. | 15 | — |
| New York | gal. | 15 | — |
| Philadelphia | gal. | 14 | — |
| Pittsburgh | gal | 175 | — |
| Providence | gal. | 165 | — |
| Rochester | gal. | 16 | — |
| St. Louis | gal. | 19 | — |
| Syracuse | gal. | .19 | — |
| Washington, D. C | gal. | 175 | — |
| Naphtha, cleaners, East Coast, tanks, N. J., N. Y., refinery | gal. | .14 | — |
| Group 3, tanks | gal. | .10875- | — |
| tankwagon, St. Louis | gal. | .19 | — |
| Newark | gal. | .15 | — |
| Chicago | gal. | .197 | — |
| Detroit | gal. | .214 | — |
| New York | gal. | .15 | — |
| Philadelphia | gal. | .14 | — |
| high-flash, 140° F, group 3, refinery, tanks | gal. | .13 | .145 |
| 300-385 b.r., 37-38° C., mixed anilin pt., tanks, refinery or terminal | gal. | .20 | .21 |
| 25-26° C., m.a.p., tanks, same basis | gal. | .20½ | .24 |
| 370-370 b.r., 78-81° C., m.a.p., tanks, same basis | gal. | .23½ | — |
| 49° C., m.a.p., tanks, same basis | gal. | .26½ | — |
| 26-27° C., m.a.p., tanks, same basis | gal. | .20½ | .24½ |
| 300-400 b.r., 28-32° C., m.a.p., tanks, same basis | gal. | .20½ | .26½ |
| 340-410 b.r., 27° C., m.a.p., tanks, same basis | gal. | .30½ | — |
| 32° C., m.a.p., tanks, same basis | gal. | .20½ | — |
| 36° C., m.a.p., tanks, same basis | gal. | .20½ | — |
| 340-440 b.r., 32° C., m.a.p., tanks, same basis | gal. | .25½ | .27 |
| 360-480 b.r., 25° C., m.a.p., tanks, same basis | gal. | .20½ | — |
| V.M.&P., ref'y, California, 245-360 b.r., tanks, ex tax, f.o.b. Los Angeles | gal. | .147 | — |
| Portland, Ore | gal | .158 | — |
| San Francisco | gal. | .152 | — |
| Seattle, Wash. | gal. | 158 | — |
| East coast, N. J., N. Y., tanks. | gal. | 15 | — |
| Group 3, tanks | gal. | .10875- | .11375 |
| tankwagon, Boston | gal. | .175 | — |
| Chicago | gal. | .207 | — |
| Detroit | gal. | 224 | — |
| Milwaukee | gal. | .209 | — |
| Minneapolis | gal. | .207 | — |
| Newark | gal. | .165 | — |
| New York | gal. | .165 | — |
| Philadelphia | gal. | .165 | — |
| Pittsburgh | gal. | .185 | — |
| St. Louis | gal. | .20 | — |
| Solvent, rubber, California, tanks, ex tax, San Francisco | gal. | .152 | — |
| East coast, N. J., N. Y., | gal. | .15 | — |
| Group 3 tanks | gal. | .10375- | .11375 |
| Stoddard, California, tankwagon, ex-tax, Los Angeles | gal. | .157 | .195 |
| East coast, N. J., N. Y., tanks | gal. | 14 | — |
| Group 3, tanks | gal. | .10375- | .10875 |
| Pennsylvania, western, tanks. | gal. | 10 | — |
| tankwagon, Boston | gal. | .16 | — |
| Chicago | gal. | .197 | — |
| Detroit | gal. | .214 | — |
| Milwaukee | gal. | .199 | — |
| Minneapolis | gal. | .197 | — |
| Newark | gal. | .15 | — |
| New York | gal. | .15 | — |
| Philadelphia | gal. | .14 | — |
| Pittsburgh | gal. | .175 | — |
| St. Louis | gal. | .19 | — |
| Syracuse | gal. | .19 | — |
| Sulphonate, 70% sulphonic content,, ret. dms., c.l., works | lb. | .1715- | — |
| l.c.l., works | lb. | .1750- | — |
| tanks, works | lb. | .1525- | — |
| 50% sulphonic content, ret. dms., c.l., works | lb. | .1365- | — |
| l.c.l., works | lb. | .1400- | — |
| tanks, works | lb. | .1175- | — |
| Phenobarbital, USP, dms., 100 lbs. | lb | 4.00 | 4.35 |
| Phenobarbital-sodium, USP, dms | lb. | 4.00 | 4.10 |
| Phenol 90-92% (cresol, 8-10%), dms., c.l., frt. alld. and frt. equald. E. of Rockies. | lb. | .1275- | — |
| l.c.l., same basis | lb. | .1350- | — |
| tanks, same basis | lb. | .1100- | — |
| 82-84% (cresol, 16-18%), dms., c.l., same basis | lb. | .1275- | — |
| l.c.l., same basis | lb. | .1350- | — |
| tanks, same basis | lb. | .1100- | — |
| USP, dms., c.l., same basis | lb. | .13½- | .14¾ |
| l.c.l., same basis | lb. | .14¼- | .15½ |
| tanks, same basis | lb. | .12½- | .13 |
| Phenolphthalein, USP or yellow, bbls., dms., 2,000 lbs. | lb. | 1.00 | — |
| smaller lots | lb. | 1.02 | 1.07 |
| Phenothiazin, NF fib. dms., 18,000 lbs., frt. adjusted | lb. | .44 | — |
| smaller lots, frt. adjusted | lb. | 46 | — |
| Phenylacetaldehyde solution, 50%, bots | lb. | 2.35 | 2.65 |
| 100%, bots | lb. | 4.00 | 4.75 |
| Phenylacetamide, 125-lb. dms., works, lb. lots | lb. | 1.25 | — |
| smaller dms | lb. | 1.30 | 1.60 |
| Phenyl acetate, dms., 100-lb. lots, works | lb. | .50 | — |
| Salicylate (see Salol). | | | |
| Phenylalanine dextro laevo, dms., works | lb. | 30.00 | 37.50 |
| Phenyldiethanoamine, dms., c.l., works | lb. | .35½- | — |
| l.c.l., works | lb. | .36½- | — |
| Phenylethanolamine, dms., c.l., works | lb. | .67½- | — |
| l.c.l., same basis | lb. | .68½- | — |
| Phenylethyl acetate, dms | lb. | 1.45 | 2.70 |
| Phenylethylphenyl acetate, bots | lb. | 3.75 | 6.00 |
| Phenylhydrazin base, CP, bots | lb. | 3.00 | 3.07 |
| Hydrochloride, CP, bots., works. | lb. | 5.00 | 5.07 |
| commercial, kgs., works | lb. | 1.75 | — |
| Phenylmethylpyrazolone, dms., works | lb. | 1.40 | 1.58 |
| Phlororglucinol, CP, fib. dms., works | lb. | 13.75 | 15.75 |
| commercial fib. dms., works | lb. | 4.50 | 7.00 |
| tech., fib., dms., works | lb. | 10.00 | 10.75 |
| Phosgene, 150-lb. cyls., works | lb. | .20½ | — |
| 10-lb. cyls., works | lb. | 1.50 | — |
| Phosphate, defluorinated (see under D) | | | |
| Phosphate rock, Florida, land pebble, run-of-mine, washed, dried, unground, 68-66%, b.p.l., bulk, c.l., car at mine | long ton. | 3.755 | — |
| 70%-68%, b.p.l., c.l., same basis | long ton. | 4.155 | — |
| 72%-70%, b.p.l., c.l., same basis | long ton. | 4.805 | — |
| 75%-74%, b.p.l., c.l., same basis | long ton. | 5.805 | — |
| 77%-78%, b.p.l., c.l., same basis | long ton. | 6.905 | — |

# AT REDUCED COST

## by using KETONE Lacquer Solvents

WITH KETONES you can offer more durable lacquers . . . lacquers that meet the highest specifications for cold check. That's because Ketones permit the use of more high viscosity grade nitrocellulose at practical spraying viscosities.

**Be sure YOUR solvents also offer these advantages:**

1. High solids content
2. High diluent tolerance
3. Low viscosity formulations
4. Low specific gravity

**Have you heard the *full* story** on the cost-cutting advantages of Ketone Solvents? Call your Shell Chemical Representative and have him point out the basic factors that will enable you to profit by the competitive advantage of Ketone formulations.

**SHELL CHEMICAL CORPORATION**

Eastern Division: 500 Fifth Avenue, New York 18 Western Division: 100 Bush Street, San Francisco 6

LOS ANGELES • HOUSTON • ST. LOUIS • CHICAGO • CLEVELAND • BOSTON • DETROIT • NEWARK

Phosphate Rock, Florida, finely ground, 65% b.p.l., basis 30% $P_2O_5$ minimum short ton. 4.93 - —
68% b.p.l., basis 31% $P_2O_5$ minimum short ton. 5.78 —
70% b.p.l., basis 32% $P_2O_5$ minimum short ton. 5.83 - —
plus or minus usual bonus adjustment clause for oil and labor. Prices on entirely pebble, 50c. per long ton higher than above quotations.
Tennessee, brown, run-of-mine, unground, 27-28% $P_2O_5$ long ton. 6.45 - —
30-29% $P_2O_5$ long ton. 7.21 —
Phosphorus, red, amorpnous, cs lb. .33 .36
tins, export lb. .34 .37
Yellow, cns. lb. .30 .37
dms., c.l. lb. .26 —
Oxychloride, dms., works lb. .12 .15
Pentasulphide, dms., c.l., works lb. .11 —
l.c.l., dms., works lb. .12 .13
Pentoxide, dms., c.l., works lb. .12 - —
c.l., works lb. .13 .14
Sesquisulphide, tins, cs., works lb. .28 .29
dms., export lb. .33½ .36
Trichloride, dms., c.l., works lb. .12 .15
l.c.l., works lb. .13 .16
Phthalic anhydride, bgs., bbls., c.l., works, frt. equald. lb. .21½ —
l.c.l., same basis lb. .22½ —
Phthalimide, bbls., works lb. 1.10 1.37
Pichi leaves, bgs. lb. .08 - .10
Picoline (see Alphapicoline and Betapicoline)
Pilocarpine hydrochloride, NF, bots., vials oz. 6.50 7.50
Nitrate, USP, bots, vials oz 6.25 7.25
Pimento, Jamaica, bgs. lb. .21 - .21½
Pinetar retort, dms., incl., c.l., works, South lb. .045 —
l.c.l., same basis lb. .0473- —
whse., N.Y.C. lb. .0595- —
tanks, works, South lb. .035 —
Pinkroot, bls. lb. 1.60 1.70
Piperidine, 95%, wns., frt. equald. lb. 1.65 —
98%, dms., same basis lb. 1.75 —
Piperazine hexahydrate, bots. lb. 8.50 9.00
Pipsissewa herb (see Prince's pine).
Pitch, burgundy, dms. incl., 20 or more dms., works, South. 100 lbs. 7.16 - —
whse., N. Y. C. 100 lbs. 8.08 - —
5 to 19 dms., works, South. 100 lbs. 7.36 - —
whse., N. Y. C. 100 lbs. 8.28 - —
1 to 4 dms., works, South. 100 lbs. 7.61 - —
whse., N. Y. C. 100 lbs. 8.53 - —
Coaltar, 150° F. m.p., bbls., c.l., works ton.34.00 - —
l.c.l., works ton.36.00 -37.00
Cottonseed, dms., works lb. .05½- .07
Hardwood, paper bgs., c.l., works. lb. .02 —
Linseed, dms. lb. .06 Nom.
Petroleum (see Asphaltum, Mexican, Texas).
Pine, dms., ex whse. East 100 lbs. 4.67 - —
Soybean, dms., works lb. .04½- .05
Plaster of paris (see Gypsum)
Platinum metal, works oz. 66.00 -69.00
Pokeroot, bls lb. .13 .14
Pleurisy root, bls lb. .25 .26
Podophyllin, NF, dms lb. 12.45 - —
Polystyrene, colors, special, bgs., over 30,000 lbs., frt. alld lb. .30 - —
20,000-29,999 lbs., same basis lb. .30 - —
10,000-19,999 lbs., same basis lb. .30½- —
200-9,999 lbs., same basis lb. .31 .60
standard, bgs., over 30,000 lbs., same basis lb. .30 - —
20,000-29,999 lbs., same basis lb. .30 - —
10,000-19,999 lbs., same basis lb. .30½- —
200-9,999 lbs., same basis lb. .30½- —
crystals, heat-resistant, bgs., over 30,000 lbs., same basis lb. .25½- .27
20,000-29,999 lbs., same basis lb. .26½- .28
10,000-19,999 lbs., same basis lb. .27½- .29
200-9,999 lbs., same basis lb. .27½- .29
standard, bgs., over 30,000 lbs., same basis lb. .25½- —
20,000-29,999 lbs., same basis lb. .26½- —
10,000-19,999 lbs., same basis lb. .27½- —
200-9,999 lbs., same basis lb. .27½- —
Polystyrene in non-returnable fiber dms., ½c. per lb. higher.
Pomegranate root bark, bgs. lb. .68 70
Poppy flowers, bls lb. .50 - 1.05
Seed, Dutch, bls lb. .18 - .18½
Polish, bgs. lb. .16 - .16½
Potash, caustic, low-chloride, flake, 85% basis 90% KOH, dms., c.l., works 100 lbs. 9.75 - —
l.c.l., works 100 lbs. 10.50 - —
liquid, 45%, dms., c.l., works, 100 lbs. 4.525 —
l.c.l., works 100 lbs. 5.025 - —
tanks, works 100 lbs 4.20 - —
solid, 90%, dms., c.l., works. 100 lbs. 9.15 - —
l.c.l. works 100 lbs. 9.90 - —
regular, flake, 88-92%, dms., c.l., works lb. .0815- —
l.c.l. works lb. .089 —
liquid, 45% basis, dms., c.l., works. lb. .03725- —
l.c.l., same basis lb. .0450- —
tanks, same basis lb. .0340- —
solid, 88-92%, dms., c.l., works. lb. .0755- —
l.c.l. works. lb. .0830- —
Potassium abietate lb .06 —
Acetate, USP, dms lb. .31 .36
Bicarbonate, USP, gran., dms lb. .20 .22
powd., dms lb. .22 .24
Potassium bichromate, bgs., works lb. .13¼- .14¼
Potassium bichromate in drums, ½c. higher.
Bitartrate (see Cream of tartar)
Borate, gran., bbls., c.l., works ton.192.00 - —
ton lots, works ton.245.50 - —
less ton lots, works ton.250.50 - —
Bromate, bbls., 1,000 lbs. or more. lb. .48 - —
25-200-lb. lots lb. .60 - —
Bromide, USP, cryst., gran., bbls., kgs lb. .33 .34
Carbonate, tech., calcined, bbls., c.l., works lb. .0780- —
l.c.l., same basis lb. .0855- —
hydrated, 83-85%, bbls., c.l., works lb. .06¼ —
dms., l.c.l., works lb. .07 - —
USP, gran., bbls., dms lb. .16½ .18
powd., bbls., dms lb. .21 .23
Chromate, tech., bgs lb .23 .26
Chlorate, cryst., kgs., c.l., works lb. .08½- —
l.c.l., works lb. .09¾- —
Potassium chlorate, powd., dms., kgs., c.l., works lb. .09 - —
l.c.l., works lb. .09¾ —
export, kgs., 1 to 10 tons, ex whse lb. .12 —
NF, gran., dms lb .31 .33
Chloride, USP, cryst., dms lb. .26 - .27
gran., bbls lb 20 .22
powd., bbls lb 29 .32
Citrate, USP, gran., dms lb .37½- .38½
powder, dms. lb 40½ .41½
Cyanide, dms., works lb. .52½- .55
Fluoride, dms., works lb. .24 —
Gluconate, dms. lb. .75 - .79
Glycerophosphate, 75% solution, cbys. lb. 2.05 2.20
Guiacol sulphonate, NF dms lb 1.80 1.85
Hydroxide, tech. (see Potash, caustic), USP, pellets, jars lb. .33 - —
Hypochlorite, liquid, cbys., dms., works 100 lbs. 3.50 —
Hypophosphite, NF 50-lb. lots, fib. dms lb. .90 .93
Iodide, dms lb. 1.93 1.98
Manure salt, 22% $K_2O$, bulk, mines unit-ton. .20 —
25% $K_2O$, bulk, mines unit-ton. .21 —
Metabisulphite, gran., bbls lb. .21 - —
powd., bbls lb. .25 - —
Muriate, dom., 60% $K_2O$, bulk, Carlsbad, N. M. unit-ton. .37½- —
Trona, Cal unit-ton. 45½- —
Nitrate (see Saltpeter).
Oxalate, neutral, tech., fine gran., bbls., dms. lb. .30 - .32
purified, dms. lb. .42 .44
Perchlorate, kgs., c.l., works lb. .13½ —
dms., l.c.l., works lb. .14 .15
Permanganate, tech., dms., works, lb. .21¾ .22¾
USP, dms., works lb. .23½ .24
ex whse lb. .29 —
Persulphate, dms., c.l., works lb. .17 —
l.c.l., works lb. .21 —
Potassium phosphate, tetrabasic, bbls., works lb. .13 - .13½
Prussiate, red, kgs lb. .60 - .63
yellow, bbls lb. .21 —
kegs lb. .26 - —
Ricinoleate, tech., bbls lb. .18 - —
Silicate, glass, bgs., c.l., works. ton.200.00 - —
l.c.l. 100 lbs.15.25 - —
solution, 29° Be, ret. dms., c.l., works 100 lbs. 4.25 - —
l.c.l. 5 or more, works. 100 lbs. 5.00 - —
1-4 works 100 lbs. 5.50 - —
62° Be, net, dms., c.l., works. 100 lbs. 4.75 - —
l.c.l. 5 or more, works. 100 lbs. 5.50 - —
1-4, works 100 lbs. 6.00 —
40.5° Be, ret. dms., c.l., works, 10 lbs 5.75 - —
l.c.l., 5 or more, works. 100 lbs. 6.50 - —
1-4, works 100 lbs. 7.00 - —
Silicofluoride, bbls., works lb. .07 .08
Sulphate, agricultural, dom., bulk, basis 90-95% $K_2SO_4$, min. 90%, works ton.32.50 - —
indust, bulk, works ton.36.00 - —
NF, cryst., bbls. lb. .31 .33
gran., dms lb. .18½ —
powder, dms lb. .17 - —
Sulphocyanide, cryst., NF (see Potassium thiocyanate).
Thiocyanate, cryst., NF, dms lb. .70 .75
tech., works lb. .45 .50
Titanate, ctns., c.l., works lb. .12 —
5 tons, works lb. .12¼- —
1 ton or less, works lb. .12½- .12¾
Potassium-magnesium sulphate, bulk, min., 40% $K_2SO_4$, 18-50% MGO, works ton.14.50 - —
Potassium-sodium tartrate (see Rochelle salt).
Potassium-titanium fluoride, fib. dms., works lb. .43 - .55
Potassium-titanium oxalate, bbls., kgs lb. .63 .70
Potassium-zirconium fluoride, fib. dms., c.l., works lb. .50 —
l.c.l., works lb. .52½- .55
Prickly ash bark, bls lb .23 .25
Berries, bgs lb. .55 .75
Prince's pine herb, bls lb. .50 .55
Procaine hydrochloride, USP, dms., contract, 1,000 lbs. or more, works lb. 3.75 - 4.50
spot, 1,000 lb. lots lb. 4.50 - —
smaller lots lb. 4.00 - 5.00
Progesterone, USP, 100 gms gm. 2.75 - —
Propane, commercial grade, cangas, group 3 gal. .03 - —
Propionaldehyde, dms., c.l., works lb. .23½- —
l.c.l., works lb. .29½- —
tanks, works lb. .25 - —
Propyl aldehyde (see Propionaldehyde)
Parahydroxybenzoate, USP, dms lb. 2.30 2.40
Propylene dichloride, dms., c.l. lb. .08¾ —
l.c.l. lb .09½- —
smaller containers lb 12½- —
tanks lb. .07 - —
Oxide, dms., c.l., frt. alld. E. lb. .18½- —
l.c.l., frt. alld. E lb .19½- —
tanks, frt. equald. E lb. .16½- —

## Phosphate Rock, Finely Ground—Propylene Oxide


# A load on this truck is a load off your mind

*Specify U. S. I.* — and your resin worries are over.

Because U.S.I. resins (natural and synthetic) are engineered to help you produce top quality coatings at prices that are right. And in today's highly competitive market — *that means sales!*

So when you're ordering resins — *specify U.S.I.* Our offices are as near as your phone.

*Natural and Synthetic Resins*

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**USTRIAL CHEMICALS, INC.**

**60 East 42nd Street, New York 17, N. Y.**

*Branches in All Principal Cities*

## Propyleneglycol—Rutin

| | | | |
|---|---|---|---|
| Propyleneglycol, NF, dms., c.l., frt. alld. E | lb. | .17½ | — |
| l.c.l., same basis | lb. | .18½ | — |
| tanks, same basis | lb. | .16 | — |
| tech., dms., c.l., frt. alld. E | lb. | .16½ | — |
| l.c.l., same basis | lb. | .17½ | — |
| tanks, same basis | lb. | .15 | — |
| Methylether, dms., c.l., frt. equald. | lb. | .18 | — |
| l.c.l., same basis | lb. | .18½ | — |
| tanks, same basis | lb | .16½ | — |
| Propylthiouracil, bots., 50 kilos or more | kilo. | 55.00 | — |
| smaller lots | lb. | 55.10 | -55.30 |
| Psyllium seed, black, bgs | lb. | .22 | .25 |
| blonde, bgs | lb. | .19 | .21 |
| husks, bgs | lb. | .42 | .43 |
| Pulsatilla herb, bls | lb. | .45 | .50 |
| Pumice, dom., grd., course, 0½, 1, 1½, 2, 3, bgs., ton lots. | lb. | .03¾ | .04 |
| Chicago, bgs., ton lots | lb. | .04½ | — |
| smaller lots | lb. | .03½ | .04¼ |
| fine, bgs., ton lots | lb. | .03⅝ | — |
| smaller lots | lb. | .03¾ | .04 |
| Italian, silk-screen, fine, bgs., ton lots | lb. | .04 | — |
| coarse, bgs., ton | lb. | .05½ | — |
| sun dried, fine, bgs., ton lots | lb. | .03 | — |
| coarse, bgs., ton lots | lb. | .04½ | — |
| Pumice in bbls is ½c. per lb. higher. | | | |
| Pumpkin seed, bgs | lb. | .18 | .26 |
| Purple lake (see Red) | | | |
| Pyrethrum concentrate, dewaxed, 20%; for aerosol bombs, dms., works | lb. | 11.00 | -11.50 |
| liquid (20 to 1), basis 2 grams pyrethrins per 100cc., odorless base, dms., works | gal. | 9.50 | — |
| regular base, dms., works. | gal. | 9.40 | — |
| Pyrethrum concentrate, liquid, (30 to 1) base, 3 grams pyrethrins, per 100cc., odorless base, bbls., works | gal. | 14.15 | — |
| regular base, dms., works. | gal. | 14.05 | — |
| Flowers, fine-grd., 0.9% pyrethrins, bbls., works | lb. | .42 | .44 |
| powder, 1.3% pyrethrins, bbls., works | lb. | .56 | .65 |
| Pyridin, denaturing, dms., works, and frt. equald., c.l | gal. | 2.00 | - 2.69 |
| l.c.l. | gal. | 2.00 | - 2.72 |
| refd., 2°, non-ret. dms., c.l., same basis | lb. | .74½ | - .79½ |
| l.c.l., same basis | lb. | .75 | - .80 |
| Pyridoxine hydrochloride, 100-gram lots | gram. | .55 | — |
| Pyrites, Spanish, c.i.f. Atlantic ports long-ton. | | 8.00 | — |
| Pyrocatechin (see Catechol). | | | |
| Pyrophyllite, standard, 200 mesh, bulk, c.l., mines | ton. | 11.00 | -11.50 |
| 230 mesh, bulk, c.l., mines | ton. | 12.00 | — |
| 325 mesh, bulk, c.l., mines | ton. | 15.00 | — |
| No. 3, 200 mesh, bulk, c.l., mines. | ton. | 9.50 | — |
| insecticide grade, 200 mesh, bgs., c.l., mines | ton. | 12.00 | -12.50 |
| rubber grade, 140 mesh, bgs., c.l., mines | ton. | 10.00 | -10.50 |
| Pyrophyllite in paper bgs., $3 to $3.50 per ton extra. | | | |
| Pyroxylin scrap, opaque, amber, cs., works | lb. | .17 | — |
| black, cs., works | lb. | .14 | — |
| gray, cs., works | lb. | .14 | — |
| mixed, mottled, cs., works | lb. | .12 | — |
| Pyroxylin scrap, white, china, ivory, cs., works | lb. | .17 | — |
| dense, cs., works | lb. | .17 | — |
| translucent, pastels, cs., works, | lb. | .17 | — |
| transparent, colorless, cs., works, | lb. | .19 | — |
| colors, cs., works | lb. | .17 | — |
| shavings, opaque, amber, cs., works | lb. | .15 | — |
| mixed, colors, cs., works | lb. | .14 | — |
| white, cs., works | lb. | .17 | — |
| USP, bots., dlvd | lb. | 9.54 | — |

## Q

| | | | |
|---|---|---|---|
| Quassia chips, bls | lb. | .08 | .09 |
| Quebracho extract, clarified, grd., 70% tannin, bgs., c.l., | lb. | .14¾ | .15 |
| liq., 35% tannin, bbls., works. | lb. | .08 | .08½ |
| tanks, same basis | lb. | .07½ | — |
| solid, 64% tannin, bgs., c.l., duty extra | lb. | .09 | — |
| powd., 70% tannin, bgs., c.l | lb. | .15½ | — |
| ordinary, solid, 63% tannin, bgs., c.l., ex dock, duty extra | lb. | .08½ | — |

Quebracho extract prices are based on $20.40 freight and $1 insurance per long ton.

| | | | |
|---|---|---|---|
| Queen of the meadow root, bgs | lb. | .14 | .15 |
| Quercitron crystals, bbls., t.c.l | lb. | .33½ | — |
| Extract, liquid, bbls., l.c.l | lb. | .14½ | — |
| solid, bxs | m. | .28 | — |
| Quicksilver, flasks (76 lbs.) net, 100 flask lots | flask. | 71.00 | — |
| smaller lots | lb. | 73.00 | -75.00 |
| Quince seed, bgs | lb. | .90 | 1.50 |
| Quinidine, NF V, cryst., cns | oz. | 1.90 | — |
| powd., precip., cns | oz. | 1.85 | — |
| Sulphate, USP, cns | oz. | 1.25 | — |
| Quinine, NF, cns., 100 ozs | oz. | .70 | — |
| Bisulphate, USP, cns., 100 ozs | oz. | .51 | — |
| Dihydrochloride, USP | oz. | 70 | — |
| Ethylcarbonate, NF, cns., 100 ozs. | oz. | 75 | — |
| Hydrobromide, NF, cns., 50-oz. cns | oz. | .63 | — |
| Hydrochloride, USP, cns., 100 ozs. | oz. | .63 | — |
| Phosphate, NF, cns., 100 ozs | oz. | 70 | — |
| Salicylate, NF, ctns., 100 ozs | oz. | 66 | — |
| Sulphate, USP, cns., 100 ozs | oz. | 56½ | — |
| Quinine-urea hydrochloride, NF, cns | lb. | 68 | — |
| Quinolin, dms. c.l., works | lb | 50¾ | 54½ |
| l.c.l., works | lb. | .51¼ | .55 |
| tanks, works | lb. | .50 | .51 |

## R

| | | | |
|---|---|---|---|
| R salt, paste, dry basis, dms. | lb | 70 | 75 |
| Raspberries, dried, bbls | lb. | 1.65 | 1.70 |
| Red, alizarin lake, bbls., dlvd. N. of Tenn. and N. C., E. of Miss. including St. Paul, Minneapolis, Davenport, Rock Island, St. Louis. | lb. | 1.45 | 2.25 |

Prices ½c. per lb. higher dlvd. Ala., Fla., Ga., La. (Shreveport, 1¼c.), Miss., N. C., S. C., Tenn., Tex. (Dallas, Ft. Worth, 1¼c.), (El Paso, 2c.), Cedar Rapids, Des Moines, Kansas City, Lincoln, Omaha, St. Joseph, 1.6c. per lb. higher, dlvd. Pacific coast prices equaled with Chicago, dlvd. Denver, Pueblo, Salt Lake City, Wichita.

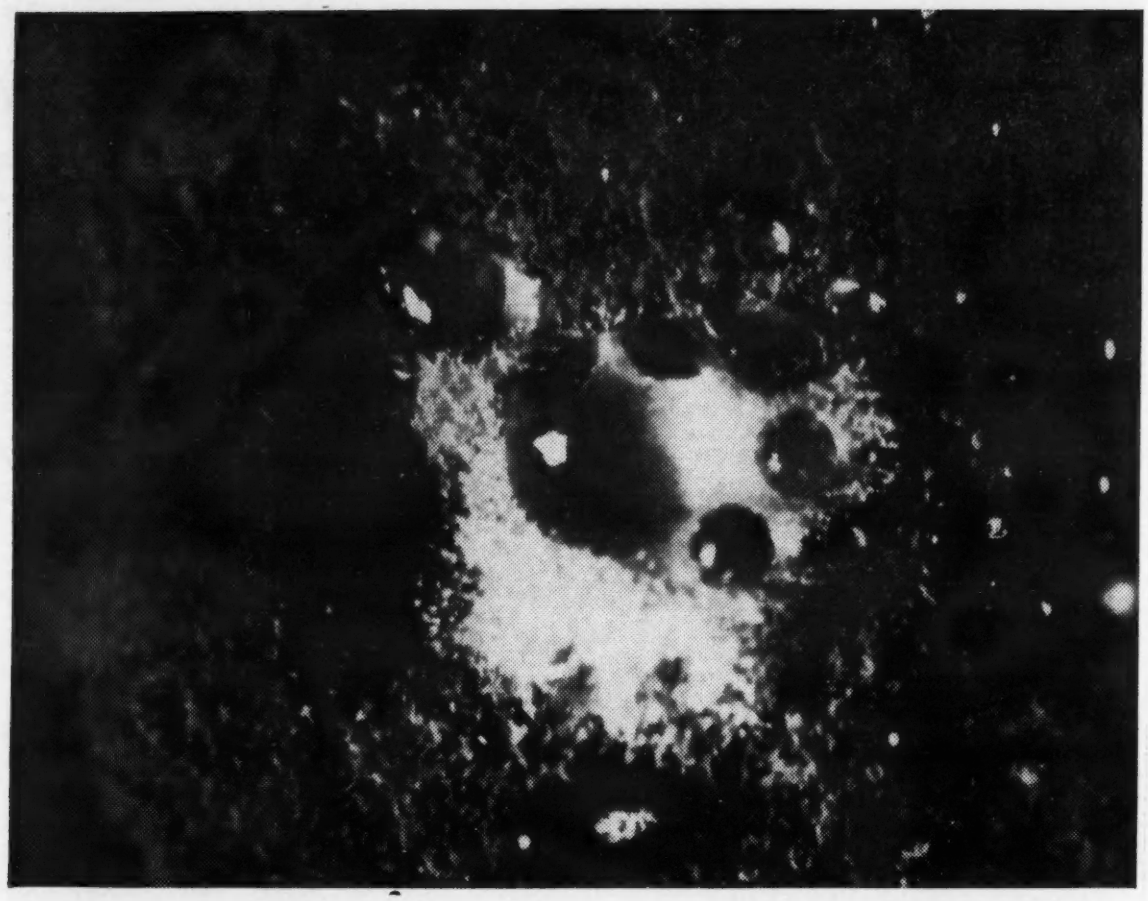
| | | | |
|---|---|---|---|
| Cadmium, CP, dark shade, bbls., frt. alld., E. of Rockies | lb. | 3.65 | — |
| light shade, bbls., same basis. | lb. | 3.50 | — |
| medium shade, bbls., same basis | lb. | 3.60 | — |
| medium-light shade, bbls., same basis | lb. | 3.55 | — |
| orange shade, bbls., same basis | lb. | 3.15 | — |
| orange-red shade, bbls., same basis | lb. | 3.35 | — |
| lithopone, deep shade, bbls., same basis | lb. | 1.35 | — |
| light shade, bbls., same basis | lb. | 1.20 | — |
| maroon shade, bbls., same basis | lb. | 1.45 | 1.55 |
| medium shade, bbls., same basis | lb. | 1.30 | — |
| medium-light shade, bbls., same basis | lb. | 1.25 | — |
| orange-red shade, bbls., same basis | lb. | 1.15 | — |

Red cadmium lithopone, all shades, in smaller pkgs., 5c. per lb. higher; all prices are 1c. per lb. higher ex whse. Los Angeles and San Francisco.

| | | | |
|---|---|---|---|
| Carmine, No. 40 (see Carmine). | | | |
| Crocus martis (see Red, maroon iron oxide). | | | |
| Dyes (see Dyes, coaltar). | | | |
| Eosin toner, bbls., works | lb. | 1.40 | — |
| Indian, dom., pure, bgs., Bethlehem, Easton, E. St. Louis, N. Y | lb. | .11½ | 11¾ |
| Iron oxide, synth., bgs | lb. | .11½ | .11¾ |
| 75%-85% copperas oxide, bgs., l.c.l., Bethlehem, Pa., Copley, O.; Easton, Pa.; E. St. Louis | lb. | .05¼ | .09¼ |
| special, high color, all shades | lb. | .60 | — |
| Lake C toner alizarin, bbls., works. | lb. | 1.05 | — |
| Lithol toner, bbls., works | lb. | .65½ | .80 |
| Lithol-rubin toner, alizarin, lake, bbls., works | lb. | 1.40 | — |
| Maroon, alizarin lake, 25%, kgs., works | lb. | .40 | .43 |
| toner, bbls., works | lb. | 1.35 | 1.50 |
| Cadmium, deep, bbls., works | lb. | 1.20 | — |
| regular, bbls., works | lb | 1.10 | — |
| Iron oxide, bgs., l.c.l., works | lb. | .04 | — |
| MNPT toner, kgs., works | lb. | 3.25 | — |

Maroons in smaller pkgs., 5c. per lb. higher

| | | | |
|---|---|---|---|
| Mercury oxide, tech., bbls., 10,000 lbs., works | lb. | 2.00 | — |
| smaller lots, works | lb. | 2.02 | — |
| Metallic, bbls., works | lb. | 02½ | .02¾ |
| Oxide (see Red, iron oxide). | | | |
| Persian gulf, bgs., works | lb. | 06¾ | 07 |
| Para toner, bbls | lb. | .69½ | .80 |
| chlorinated, kgs | lb. | .95 | 1.05 |
| concentrated alizarin lake, kgs., works | lb. | 80 | — |
| Phloxin toner (see eosin toner). | | | |
| Phosphotungstic, rhodamine Y, kgs., works | lb. | 4.45 | — |
| Pink lake, alizarin, bbls., works | lb. | .20 | .25 |
| Purple lake, kgs | lb. | 1.35 | — |
| Rose lake, alizarin, bbls., works | lb. | .25 | .28 |
| Spanish oxide, grade 1, bbls., c.l., ex dock | lb. | .05½ | .05¾ |
| l.c.l., ex dock | lb. | .05¾ | .06 |
| ex whse., New York | lb. | .06½ | — |
| grade 2, bbls., c.l., ex dock | lb. | .05¼ | .05½ |
| l.c.l., ex dock | lb. | .05½ | .05¾ |
| ex whse., New York | lb. | .06¼ | — |
| Toluidin toner (MNPT), kgs., works | lb. | 1.01 | - 1.30 |
| Turkey, bbls., works | lb. | .14½ | — |
| Tuscan, bbls., frt. equald | lb. | .24½ | .25 |
| Venetian, 15%, bgs., works | lb. | .0350 | — |
| 20%, bgs., works | lb. | .0360 | — |
| 25%, bgs., works | lb. | .0410 | — |
| 30%, bgs., works | lb. | .0440 | — |
| 35%, bgs., works | lb. | .0465 | — |
| 40%, bgs., works | lb. | .0490 | — |
| Vermilion, Amer., bbls | lb. | .32 | — |
| Quicksilver, ctns | lb. | 2.27 | — |
| Red Precipitate, NF, powd., fib. dms | lb. | 2.17 | 2.19 |
| Red saunders wood, powd., bbls | lb. | .50 | — |
| Rennin, NF | lb. | 6.50 | — |
| Resorcinol, resin grade, dms., c.l., works | lb. | .71 | — |
| l.c.l., works | lb. | .72 | — |
| tech., dms., c.l., works | lb. | .74 | — |
| l.c.l., works | lb. | .75 | — |
| USP, cryst., dms., works | lb. | 2.50 | — |
| powd., dms., works | lb. | 2.70 | — |
| Monoacetate, NF, dms | lb | 3.25 | 3.45 |
| Rhatany root, bgs | lb. | .15 | - .16 |
| Rhubarb root, whole, cs | lb. | 1.30 | Nom. |
| powd., bbls | lb. | 1.50 | Nom. |
| Riboflavin, USP, bots., dlvd | kilo. | 125.00 | — |
| Readily soluble, bots., dlvd | kilo. | 125.00 | — |
| Rice bran concentrate, dms., Cedartown, Ga | lb. | 79 | — |
| Rochelle salt, USP, gran., powd., dms., 5,000 lbs | lb. | .27½ | — |
| smaller lots | | .28 | .33 |
| Rose flowers, pale, bls | lb. | .35 | .40 |
| Rosemary flowers, bls | lb. | 1.55 | 1.65 |
| Leaves, French, bls | lb. | .12 | .17 |
| Portuguese, bls | lb. | .07¼ | .07½ |
| Spanish, bls | lb. | .07½ | .08 |
| Rosin gum (see Naval Stores, Protective Coatings market). | | | |
| Wood, B, dms., c.l., works | 100 lbs. | 4.25 | — |
| FF, dms., c.l., works | 100 lbs. | 5.50 | — |
| G, H, I, dms., c.l., works | 100 lbs. | 6.25 | — |
| K, dms., c.l., works | 100 lbs. | 6.25 | — |
| M, dms., c.l., works | 100 lbs. | 6.25 | — |
| N, dms., c.l., works | 100 lbs. | 6.25 | — |
| WG, dms., c.l., works | 100 lbs. | 6.66 | — |
| WW, dms., c.l., works | 100 lbs. | 6.85 | — |
| X, dms., c.l., works | 100 lbs. | 6.95 | — |
| Rotenone, CP, bbls., works | lb. | 20.00 | — |
| tech., works | lb. | 16.50 | — |
| Rottenstone, bgs., c.l., mines | ton. | 36.00 | — |
| l.c.l., mines | ton. | 43.00 | — |
| Rue herb, bls | lb. | .35 | .40 |
| Rutin, 10 kilos, fib. dms | gram. | .04½ | .05½ |
| 5 kilos, fib. dms | gram. | .04½ | .05½ |
| smaller lots, fib. dms | gram. | .05 | .06 |

*Aspergillus from growth on paper magnified 78X.*

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DOW CHEMICALS
INDISPENSABLE TO INDUSTRY AND AGRICULTURE

## S

| | | | |
|---|---|---|---|
| Sabadilla seed, powd., bbls | lb. | .60 | — |
| activated ground with lime, bbls | lb. | .35 | .36 |
| Saccharin, USP, gran., soluble, 1,000 lbs | lb. | 1.50 | — |
| smaller lots | lb. | 1.60 | 1.70 |
| powd., soluble insoluble, dms., 1,000-lb. lots | lb. | 1.55 | — |
| smaller lots | lb. | 1.65 | 1.85 |
| Safflower, Egyptian, bls | lb. | .75 | .80 |
| Saffron, Mexican, bls | lb. | .95 | 1.00 |
| Spanish, USP, tins | lb. | 17.00 | -18.00 |
| Safrol, dms. | lb. | .85 | .90 |
| Sage, Cyprus, bales, futures | lb | 12 | 13 |
| Dalmatian, bls. | lb. | 1.15 | 1.20 |
| Greek, fancy, bls | lb. | .30 | .31 |
| Spanish, bls | lb. | .12 | .12½ |
| Sago flour, bgs | lb. | .05½ | .05¾ |
| Saligenin, ctns | lb. | 14.00 | -25.00 |
| Salol, NF, gran., bbls., kgs | lb. | 1.00 | — |
| fib. dms | lb | 1.02 | 1.03 |
| powdered salol 10c. higher | | | |
| Salt, rock, burlap bgs., c.l. 100 lbs. | | .98 | — |
| l.c.l. | 100 lbs. | 1.19 | 1.22 |
| paper bgs., c.l | 100 lbs. | .88 | — |
| l.c.l. | 100 lbs. | 1.09 | 1.12 |
| Table, vacuum, common, fine, bgs., c.l., works 100 lbs. | | .98 | 1.08 |
| l.c.l., dlvd 100 lbs. | | 1.20 | 1.32 |
| Saltcake, dom., bulk, dlvd. 100% $Na_2SO_4$ basis | ton. | 22.00 | — |
| Saltpeter, cryst., obls. 10 tons, 100 lbs. | | 13.90 | — |
| smaller lots | 100 lbs. | 14.15 | -14.40 |
| gran., bbls., 20 tons | 100 lbs | 9.25 | — |
| smaller lots | 100 lbs. | 10.50 | -11.00 |
| powd., bbls., 20 tons | 100 lbs. | 10.25 | — |
| smaller lots | 100 lbs. | 11.50 | -12.00 |
| NF, gran., dms | lb. | .15¾ | .17¾ |
| Saltpeter in bags, 25c. per 100 lbs. less than in barrels; in kegs, $1 more. | | | |
| Sandalwood chips, East Indies, bgs., | lb. | .65 | .66 |
| powd., dms. | lb. | .75 | 76 |
| Sanguinarine nitrate bots | oz. | 4.75 | 5.50 |
| Santonin, NF, cryst., powd., cns. | kilo. | No stocks. | |
| Saponin No. 1, cns | lb. | 2 45 | — |
| Sarsaparilla root, dom., bls | lb. | .30 | 40 |
| Honduras, bls. | lb | 40 | 45 |
| Mexican, bls. | lb. | .28 | .30 |
| Sassafras bark, ord., bls | lb. | .35 | 40 |
| select, bls | lb. | .50 | .55 |
| Savory, French, bls | lb. | .14 | .15 |
| Spanish, bls | lb. | .12 | .12½ |
| Saw palmetto berries, bgs. | lb. | .23 | .24 |
| Scammony resin, lump, cns | lb. | 1.95 | - 2.20 |
| powd., cns. | lb. | 2.05 | - 2.30 |
| Root, bgs | lb. | 11 | .14 |
| Schaeffer's salt, bgs. | lb | 60 | .67 |
| Scopolamine hydrobromide, bots | oz. | 20.50 | -24.50 |
| Hydrochloride, bots | oz | 84.00 | — |
| Seidlitz mixture, bbls., 5,000 lbs | lb. | .25¾ | — |
| smaller lots | lb. | .26¼ | — |
| dms., 100 lbs. or less | lb. | .27¼ | .31¼ |
| Selenium, powd., cns. 10-lb. lots | lb. | 2.10 | — |
| cs., 1,000-lb lots | lb. | 2.00 | — |
| Senega root, bls | lb. | 1.55 | - 1.65 |
| Senna leaf, Alex., half-leaf, bls | lb. | .22 | .24 |
| sifting, bgs | lb. | .19 | .21 |
| Tinnevelly, No. 1, bls | lb. | .17 | .24 |
| No. 2, bls | lb. | .14 | .19 |
| No. 3, bls | lb. | .10 | .11 |
| Pods, bls. | lb. | .12 | .15 |
| powdered, bls., bxs. | lb | 16 | 22 |
| Serpentaria root, bls | lb. | 2.20 | Nom. |
| Sesame seed, Chinese, white, nat., bgs. | lb. | .11 | .11½ |
| hulled, bgs. | lb. | .17½ | .18 |
| Nicaragua, hulled | lb. | .21 | .25 |
| Salvadorean | lb. | .12½ | .13 |
| Turkish, yellow | lb. | .14½ | .15 |
| Shellac, bleached, bonedry,, bgs., 1,500-lb lots | lb. | .56½ | — |
| bbls., 1,500-lb. lots | lb. | .57 | — |
| kgs., 1,500-lb. lots | lb. | .59 | — |
| refined, bgs., 1,500-lb. lots | lb. | .66½ | — |
| bbls., 1,500-lb. lots | lb. | .67 | — |
| kgs., 1,500-lb. lots | lb. | .69 | — |
| bonedry shellac prices for less than 1,500 lbs., 1c. per lb. higher for all packages. | | | |
| Lemon, No. 1, bgs | lb. | .48 | .49 |
| No. 2, bgs | lb. | .45 | .46 |
| Superfine, bgs., 10 bgs | lb. | .43 | .44 |
| TN, bgs., 10 bgs | lb. | .42 | .43 |
| Shellac in 1 to 9 bgs., 1c. more. | | | |
| Silica amorph., dry-grd., 325 mesh, bgs., c.l., Ill. works | ton. | 20.00 | -30.00 |
| l.c.l., works | ton. | 25.00 | -40.00 |
| hard-quartz, 99½% 325 mesh, bgs., c.l., works | ton. | 20.00 | — |
| l.c.l., works | ton. | 25.00 | — |
| 99½%, 140 mesh, bgs., c.l., works | ton. | 12.00 | — |
| l.c.l., works | ton. | 17.00 | — |
| Tetrachloride, tech., dms., c.l., works | lb. | .14½ | — |
| l.c.l., works | lb | .18½ | .20½ |
| Silver bullion, ingots, cs | oz. | .73¼ | — |
| Cyanide, fib. dms., 2,2500-oz. lots. | oz. | .66¾ | — |
| 1,000-oz. lots | oz. | .67 | — |
| 500-oz. lots | oz. | .67¼ | — |
| 100-oz. lots | oz. | .67½ | — |
| Nitrate, CP, cryst., bots., 2,500-oz. lots | oz. | .46¾ | — |
| 1,000-oz. lots | oz. | .48 | — |
| 500-oz. lots | oz. | .48¾ | — |
| 250-oz. lots | oz. | .49 | — |
| USP granular silver nitrate 2c per oz. higher. | | | |
| Proteinate, mild, USP, bots., dms., 1,000-oz. lots | oz. | .95 | — |
| strong, NF, bots., dms., 1,000-oz. lots | oz. | .90 | — |
| Simaruba bark, bls | lb. | .85 | Nom. |
| Skullcap herb, Eastern, bls | lb. | .60 | .65 |
| Western, bls | lb. | .30 | 35 |
| Skunk cabbage root, bls | lb. | .30 | 35 |
| Slate flour, bgs., c.l., works | ton. | 11.00 | -12.00 |
| l.c.l., ex whse | ton. | 20.00 | -60.00 |
| Sloe berries, bgs | lb. | .32 | - .35 |
| Smalt, black, ctns | lb. | .11 | — |
| Blue, ctns | lb | 15 | — |
| Snakeroot, Canada, bls | lb. | 40 | 45 |
| Soapbark, bls | lb | .22 | .23 |
| crushed, bls., bbls | lb. | .24 | - .25 |
| cut, foreign, bbls | lb. | .25 | - .26 |
| powd., bbls. | lb. | .29 | - .30 |
| Soda ash, dense, 58%, paper bgs., c.l., works | 100 lbs. | 1.35 | — |
| l.c.l., stock points | 100 lbs. | 2.75 | 4.52 |
| bbls., c.l., works | 100 lbs. | 2.00 | — |
| l.c.l., stock points | 100 lbs. | 3.25 | 5.02 |
| bulk, c.l., works | 100 lbs. | 1.10 | — |
| light, 58% paper bgs., c.l., works | 100 lbs. | 1.25 | — |
| l.c.l., stock points | 100 lbs. | 2.65 | 4.42 |
| bbls., c.l., works | 100 lbs. | 1.90 | — |
| l.c.l., stock points | 100 lbs | 3.15 | 4.92 |
| bulk, c.l., works | 100 lbs. | 1.00 | — |
| Caustic, flake, powd., 76%, dms., c.l., works | 100 lbs. | 3.45 | — |
| l.c.l. stock points | 100 lbs. | 4.80 | 6.67 |
| liquid, 50%, sellers' tanks, works, dry basis | 100 lbs. | 2.40 | — |
| rayon-type, tanks, works, dry basis | 100 lbs. | 2.40 | 2.50 |
| 70%, sellers' tanks, works, dry basis | 100 lbs. | 2.50 | — |
| rayon-type, tanks, works, dry basis | 100 lbs. | 2.60 | — |
| solid, 76%, dms., c.l., works | 100 lbs. | 3.05 | — |
| l.c.l., stock points | 100 lbs. | 4.40 | 6.27 |
| Sal, bgs., c.l., ex car | 100 lbs. | 1.58 | — |
| l.c.l., bgs., ex whse | 100 lbs. | 1.78 | — |
| Soda-lime, USP, dms | lb. | .23 | .28 |
| Sodium acetate, anhyd., dms., works | lb. | .10 | 11½ |
| NF, cryst., bbls., works | lb. | .16 | — |
| powder, bbls., works | lb. | .08 | .09 |
| Alginate, refined, water soluble, bbls., works | lb. | .79 | — |
| semi-refined, bbls., works | lb. | 46 | — |
| NF, white, powd., dms., works, ton lots | lb. | 1.25 | — |
| smaller lots | lb | 1 30 | 1.65 |
| Aluminate, 20,000 lbs. or more, bgs. 100 lbs. | | 8.50 | — |
| under 20,000 lbs., works 100 lbs | | 9 50 | — |
| Antimoniate, bbls., c.l., dlvd. E. | lb. | .31 | — |
| l.c.l., dlvd | lb | 32 | — |
| Arsenate, dealers, dms., c.l., works. | lb. | .12 | — |
| Arsenite, dealers, dms., works | lb. | .13¼ | .14¼ |
| solution, dms., works | gal. | .60 | - 1.00 |
| Benzoate, tech., bbls., dms., 100 lbs. or more | lb. | .39 | — |
| USP, bbls., dms., 100 lbs. or more | lb. | 46 | — |
| Bicarbonate, USP, gran., bgs., c.l., works | 100 lbs. | 2.35 | — |
| l.c.l., works | 100 lbs | 3.00 | — |
| powd., bgs., c.l., works | 100 lbs. | 1.95 | — |
| l.c.l., works | 100 lbs | 2.60 | — |
| Bichromate, bgs., works | lb. | .09¾ | .10¾ |
| Sodium bichromate, in drums, ¾c. higher. | | | |
| Bifluoride, bbls., c.l., works, frt. equald | lb. | .13¼ | — |
| l.c.l., same basis | lb. | .13½ | — |
| Bisulphate, bulk, c.l., works | 100 lbs. | 1.75 | — |
| dms., c.l., works | 100 lbs | 2.40 | — |
| l.c.l., works | 100 lbs. | 2.90 | — |
| Sodium bisulphite, powd., bags., c.l., works | 100 lbs. | 3.75 | — |
| l.c.l., works | 100 lbs | 4.00 | — |
| solut. 35° bbls., c.l., works | 100 lbs. | 1.10 | — |
| l.c.l. works | 100 lbs | 1.50 | — |
| Borate (see Borax). | | | |
| Bromide, USP, bbls., kgs., works | lb. | .33 | 34 |
| Cacodylate, NF, bots., dms | lb. | 7.00 | - 8.00 |
| Carbonate (see Soda ash, Soda sal, Sodium monohydrate) | | | |
| USP monohydrate, gran., dms | lb. | .05¾ | 06¼ |
| Chlorate, cryst., dms., c.l., works. | lb. | .07½ | — |
| l.c.l., works | lb | 07¾ | 08¼ |
| powd., kgs works | lb | 09 | — |
| Chloride, tech. (see Salt). | | | |
| USP, dms | lb | .21 | — |
| Chlorite, tech., dms works | lb | 75 | — |
| Chloroacetate, tech., dms., c.l., works | lb. | .20 | — |
| l.c.l., dms. works | lb | .21 | .22 |
| Chromate, dms., works | lb. | .11½ | .12½ |
| Citrate, anhyd, dms. | lb. | .60 | - .65 |
| USP VIII, dms | lb. | .21½ | .26½ |
| USP XIII, gran., dms | lb. | .28 | - .28½ |
| Sodium citrate, USP XIII, powd higher | prices | | ½c. |
| Cyanate, dms., ton lots, works | lb. | .73 | — |
| smaller lots, works | lb. | .85 | — |
| Cyanide, 96-98%, dms. | lb. | .16 | .18 |
| Diacetate, 33-35% acidity, bbls., works | lb. | .11½ | .12½ |
| anhydrous, dms., works | lb. | .14 | .15½ |
| Sodium fluoride, white, 90%, bbls., c.l., works | lb. | .10½ | — |
| l.c.l., works | lb | .10¾ | — |
| 95%, bbls., c.l., works | lb | .10¾ | — |
| l.c.l., works | lb. | 11 | — |
| Fluoracetate, monobasic, 8-oz. tins, 50 to a case, works. | lb. | 12.00 | — |
| 2 to 25 tins to case, works | lb. | 12.00 | -16.50 |
| 1 oz. tins, 16 to 64 to case, works | lb. | 16.50 | -21.00 |
| tribasic, ton lots | lb. | 11.00 | — |
| Formate, bgs., c.l., dlvd | 100 lbs. | 7.10 | — |
| l.c.l. | 100 lbs. | 8 15 | — |
| Gluconate, dms. | lb. | 83 | 85 |
| Glutamate, monobasic, kgs | lb. | 1.55 | 1.56 |
| Glycerophosphate, NF, flake, bbls. | lb. | 1.65 | 1.80 |
| powder bbls. | lb. | 1.70 | 1.85 |
| solution, 75%, cbys | lb. | 96 | 1.06 |
| Hydrosulphide (see Sodium, sulphydrate). | | | |
| Hydrosulphite, anhs. c.l. frt. alld. | lb | 21 | — |
| l.c.l., frt. alld | lb. | .21½ | .23½ |
| Hydroxide, tech. (see Soda, caustic) | | | |
| USP, pellets, dms | lb. | 2. | — |
| Hypophosphite, NF, 50-lb. lots, dms | lb. | 85 | 88 |
| Hyposulphite, tech., cryst., bgs., c.l., works, frt. equald | 100 lbs. | 3 50 | — |
| l.c.l., same basis | 100 lbs. | 3.90 | — |
| pea cryst., bgs., metro area | 100 lbs. | 3.75 | — |
| Soda, hyposulphite, crystals in bbls., 40c higher; pea crystals, dms., 50c higher | | | |
| USP (see Sodium thiosulphate) | | | |
| Iodide, USP, bots., dms | lb. | 2.47 | - 2.59 |

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Nytron • Ammonium Bicarbonate • Para-dichlorobenzene • Ortho-dichlorobenzene • Monochlorobenzene • Methanol • Ammonium Chloride • Formaldehyde

## Sodium Lactate—Trimethylamine

Sodium lactate, edible, 50%, dms., c.l., works lb. .18 - —
t.c.l., dms., works lb. .19 - —
tech., 50%, dms., works lb. .14 - .15
Metaborate, octa-hydrate, gran., bgs., c.l., works ton.73.00 - —
t.c.l., works ton.118 00 -123.00
tetrahydrate, c.l., bbls., works. ton.184.50 —
Sodium metaborate in bbls. $20 per ton higher.
Metal, dms., works lb. .18½- —
Metanilate, bgs. lb. .57 —
Metasilicate, anhyd., bbls., c.l., works 100 lbs. 4.25 —
gran., bgs., c.l., works 100 lbs. 3.25 —
t.c.l. 100 lbs. 4.35 4.60
bbls., c.l., works 100 lbs. 3.65 —
t.c.l. 100 lbs. 4.75 5.00
Molybdate, anhyd., works lb. .54 —
Monohydrate, bgs., c.l., works 100 lbs. 2.00 - —
t.c.l., works 100 lbs. 2.45 —
Naphthionate, bbls lb .60 .65
Nitrate, crude, dom., bgs., c.l. works ton.48.50 —
bulk, c.l., works lb 45.00 —
imp., 100-lb. bgs., c.l., Atl Gulf, Pac. whse ton.51.50 —
bulk, c.l., same basis ton.48.00 —
USP, dms lb. .21 —
Nitrite, 90%, bbls., c.l., works, frt. equald lb. .06¾ —
West coast ports 100 lbs. 8.00 8.05
t.c.l., dlvd 100 lbs. 8.90 11.00
Orthosilicate, anhyd., dms., c.l., works 100 lbs. 5.25 —
t.c.l., same basis 100 lbs. 5.55 7.10
hydrated, flake, bulk, c.l., works. 100 lbs. 4.25 —
t.c.l. works 100 lbs. 5.50 5.75
Oxalate, neut., bgs., works lb. .09½- —
Para-aminosalicylate, dms., 1,000 lbs. or more lb. 6.00 - —
smaller lots lb. 6.05 - 7.00
Pentachlorophenate, briquets, bgs., c.l., works, frt. equald lb. .21½- —
t.c.l., same basis lb .22½ .24½
pellets, bgs., c.l., same basis lb. .21 —
t.c.l., same basis lb. .22 .24
powd., bgs., c.l., same basis lb. .20 —
t.c.l., same basis lb. .21 .23
Truckloads of pentachlorophenate of 20,000 lbs. min. available at ¼c. per lb over carlot prices.
Perborate, USP, tech., bbls., c.l., works lb. .18¾ —
t.c.l. works lb 19¼ —
Peroxide, dms., c.l., dlvd. E. of Miss lb. .18 - —
t.c.l., same basis lb. .18½ .19
Phenolsulphonate, USP 1X, gran., dms lb. .38 .39
powd., dms. lb. .41 .42
Phosphate, dibasic, anhydr, bgs., c.l., works 100 lbs. 6.75 7.00
t.c.l., works 100 lbs. 7.25 7.50
cryst., ngs., c.l. works 100 lbs. 3.35 3.60
t.c.l., works 100 lbs. 3 75 4.00
USP, dried, powd., dms., works lb. .20 .20½
monobasic, anhyd., ngs., c.l., works 100 lbs.10.00 —
t.c.l., works 100 lbs.12.85 —
tribasic, anhyd., bgs., c.l., works, frt. equald 100 lbs. No stocks
t.c.l. same basis 100 lbs. No stocks.
cryst., bgs., c.l., works, frt. equald 100 lbs. 3.75 —
t.c.l. same basis 100 lbs. 4.25 - —
Sodium phosphates in bbls. 40c. higher than bgs
USP (see Sodium phosphate dibasic)
Prussiate, yellow, bgs lb. .12½- —
Pyrophosphate, acid, bgs., c.l., works, frt. equald 100 lbs.10.00 —
ferric, dms., 1,500 lbs., works. lb .30 —
smaller lots, works lb .31 —
tetrabasic, anhyd., bgs., c.l., works, frt. equald 100 lbs. 6.90 - —
t.c.l., frt. equald 100 lbs. 7.40 —
Ricinoleate, tech., bbls lb. No stocks.
Salicylate USP dms lb 57 60
Sesquicarbonate, bgs., c.l., works 100 lbs. 1.95 —
t.c.l., dlvd. zone 1 100 lbs. 3.70 - 4.10
zone 2 100 lbs. 3.96 4.36
zone 3 100 lbs. 4.25 4.65
zone 4 100 lbs. 4.96 5.35

Sales zones are: (1) All States E. of Miss. R. and N. of south bound of Ky. and Va.; Ala., La., and Miss., south of 31° Tex., E. of 100°; S. of 31° Fla.; also Me., N. H., and Vt., in which there are special county zones; Davenport, Ia., and St. Louis; (2) Ark. E. of 98° Ga.; Iowa (except Davenport), Minn.; Mo. (except St. Louis), Neb., E. of 98°, N. C., S. C., Tenn. and Tex. N. of 31° and E. of 100° (except Wichita Falls); also Ala., La. and Miss. No. of 31°; (3) Ark. W. of 96°, Kan., Neb., W. of 98°; N. D., Okla., S. D., Tex., W. of 100° (including Wichita Falls excluding El Paso); (4) Ariz., Colo., Idaho, Mont., Nev., N. M., Utah, Wyo., and El Paso, Tex.

bbls. c.l. works 100 lbs. 2 45 —
Sesquisilicate, bbls., c.l., works 100 lbs. 4.15 - —
t.c.l. dlvd 100 lbs. 5 40 5.65
Silicate, 40°, turbid., dms., c.l., works 100 lbs. 1.05 - —
t.c.l., works 100 lbs. 1.25 1.35
tanks works ton.16 00 17 00
52°, turbid, dms., c.l., works 100 lbs. 1.80 —
t.c.l., works 100 lbs. 2.05 - 2.15
tanks, works ton.32 00 —
Silicofluoride, bbls., c.l., works lb. .04 - —
t.c.l., works lb. .04½- —
Stannate, dms., works, frt. alld. E. lb. .433 - .498
Stearate, USP, anhyd., bbls., works lb. .51 - .56
Sulphanilate, bbls., works lb. .22 - —
Sulphate, NF VII dried, gran., dms lb. .20 23
tech anhyd., ogs., c.l., works. 100 lbs. 2.00 - —
t.c.l., works 100 lbs. 2.35 2.60
cryst (see Glauber's salt)
USP, cryst., bbls lb. .17 - .19
gran., bbls. lb. .15½- .17½
Sulphide, flake, bbls., c.l., works, frt. equald 100 lbs. 4.50 —
t.c.l., same basis 100 lbs. 5.00 5.25
fused, bbls., c.l., works, frt. equald 100 lbs 4.00 —
t.c.l., same basis 100 lbs. 4.50 4.75
Sulphite, anhyd., tech., powd., bgs., c.l., frt. equald 100 lbs. 2.50 2.75
t.c.l., same basis 100 lbs. 3.25 3.75
crystals, bgs., c.l., works 100 lbs. 3.60 —
t.c.l., works 100 lbs. 4.00 —
bbls., c.l., works 100 lbs. 4.00 —
t.c.l., works 100 lbs. 4.40 —
powd., bbls., c.l., works 100 lbs. 6.50 —
t.c.l., works 100 lbs 7.00 —
Sulphocyanide, CP (see Sodium thiocyanate).
Sulphoricinoleate, bbls lb. .51 61
Sodium sulphydrate, flake, 70-72%, dms., c.l. lb. .05¾- —
t.c.l., works lb. .06¼- —
liquid, 45%, basis 100%, tanks, works ton.90.00 - —
Thiocyanate, CP, dms lb. .55 - .65
tech., dms., works lb. .30 —
Thiosulphate, tech. (see Sodium hyposulphite)
USP, cryst., bbls lb 10 .12
Titanate, ctns., c.l., works lb. .10 - —
5 tons, works lb. .10¼ —
1 ton or less, works lb. .10½- .11
Tripolyphosphate, bgs., c.l., works 100 lbs. 7.25 - —
t.c.l. 100 lbs. 7.65 —
Tungstate, tech., kgs., dlvd., East lb. 1.10 - —
Sodium-ammonium phosphate, bbls., works, frt. equald lb. .23 —
Sodium-carboxymethylcellulose—See CMC.
Sodium-Cinchophen (see Cinchophen-sodium).
Sodium-formaldehyde, sulfoxylate dlvd., dms lb. .22 .22½
Sodium-sulpha drugs (see Sulpha name)
Sodium-titanium fluoride, fib. dms. c.l., works lb. .16½ —
t.c.l., works lb .17½ .20
Sodium-zirconyl sulphate, fiber drms., 1,000 lbs. or more, works lb .28 —
less 1,000 lbs., same basis lb .30 —
Solvent naphtha, coal tar, tanks, works gal. 25 .3235
high-flash, tanks, works gal. 25 .3235
Petroleum, 100° F., flash, tanks, Baytown, Tex gal. .25 —
150° F. flash, tanks same basis gal 25 —
Sorbitol, cryst., pellets, dms., c.l., works lb .30 - —
ton lots, works lb .33 —
solution, commercial, aqueous, dms., c.l., works lb. .22¼- —
ton lots, works lb. .23¼- —
less ton lots, works lb. .24 - —
tanks, works lb. .21½- —
regular, 70%, aqueous, dms., c.l., works lb. .16¼- —
ton lots, works lb. .17 - —
less ton lots, works lb. .17½- —
tanks, works lb. .15½- —
Soybean meal, 41% bulk, Decatur ton.58.50 - —
protein, chemically isolated, 40,000 lbs., works lb. .20 - —
20,000 lbs., works lb. .20¼- —
smaller lots, works lb. .20½- .24
mechanically refined, bgs., 40,000 lbs., works lb. .20 - —
20,000 lbs., works lb. .20¼- —
smaller lots, works lb. .20½- .24
Sparteine sulphate, ens oz. .85 - 1.25
Spearmint leaves, bls lb. .52 .55
Spikenard root, bls. lb 40 45
Spruce extract, liq., reg., tanks, works lb. .01¾ —
powd., super, bgs., c.l., works lb. .05¼ —
Squaw vine, leaves, bls lb. .33 38
Squill, red, fortified, powd., bbls. boxes lb. 1.50 1.60
White, bls. lb. .11 .13
powd., bbls., bxs lb. .16 .18
St. Ignatius beans, bgs lb. No stocks.
St. John's bread, edible, bls lb. .13 - .18
Stainless steel flake, dry, dms., works lb. 1.30 —
paste, dms., works lb. 1.25 —
Stannous chloride (see Tin chloride, stannous).
Star root (see Helonias root).
Stargrass root (see Aletris root).
Starch, corn, pearl, paper bgs., c.l., 100 lbs. 5.52 - —
Chicago 100 lbs. 4.87 - —
t.c.l. 100 lbs. 5.67 - —
powd., paper bgs., c.l. 100 lbs. 5.63 - —
Chicago 100 lbs. 4.78 - —
t.c.l. 100 lbs. 5.78 - —

Prices for corn starch in cotton bags, 12c. to 15c. per 100 lbs higher.

Potato, bgs., c.l., Idaho, works lb. .05 - —
Maine, works lb. .04½- .04¾
t.c.l., spot lb. .06½- .07
Rice, bgs lb. .12½- —
Sweetpotato, bgs., c.l. lb. No stocks.
Wheat, bgs. lb. .0606- .0656
Stavesacre seed, bgs lb. .60 61
Stearin, oleo (see Oleostearin).
Stillingia root, bls. lb. .35 38
Stoneroot, bls lb. .07½ 08
Storax, USP, cs lb. 1.50 1.60
Stramonium leaves, bgs lb. .19 .20
Seed, bgs lb. .20 21
Streptomycin, hospitals, vials gram. .60 —
wholesalers, vials gram. .48 —
Strontium bromide, NF, ens., dms., lb. .62 —
Carbonate, 90%, dms lb. .15½- .16½
Chloride, tech., bbls lb. .22 .24
Chromate, bbls., works lb. .50 - —
Iodide, jars, 25 lbs lb. 3.60 —
Nitrate, bbls., c.l., works lb. .09¼- —
t.c.l., works lb. .10¼- —
Oxalate, bbls., works lb. .42 .44
Salicylate, NF, dms lb. 1.25 1.32
Sulphate, air-floated, 90% 325 mesh, bgs., works ton.56.70 -66.15
Strontium-calcium sulphide, phosphorescent, dms., works lb 2.50 2.85
Strophanthin, NF, bots oz.39.00 —
Strophanthus seed, Kombe, bgs lb 3.00 3.25
Strychnine, NF, powd. ens. 100 ozs. oz. 1 25 - —
Phosphate, NF, 100 ozs oz. 1.14 - —
Sulphate, USP powd., cns., 100 ozs oz. 1.00 —
Styrene, monomer, tanks, works lb .15 —
Styrolyl acetate, bots lb. 2.50 3.10
Sucrose octa-acetate, denat., bbls., t.c.l., works lb .60 —
tech., bbls., t.c.l., works lb .55 —
Sugar coloring (see Caramel coloring)
Sugar of milk (see Milk sugar)
Sulphabenzamide, dms lb. 4.25 - 4.60
Sulphabenzamide-sodium, dms lb. 4.25 - 4.60
Sulphadiazin, USP, crystals, free flowing, dms lb.11.25 -11.75
microcrystals, 99%, not over 10 microns, dms lb.10.50 -11.00
powder lb.10.25 -10.75
Sulphadiazin-sodium, USP, granules, free flowing, dms lb.12.25 -12.75
powder lb.11.25 -11.75
Sulphaguanidin, USP, dms lb. 4.50 - 5.00
Sulphamerazin, USP, micro crystals, 99.9%, not over 10 microns, dms lb.10.55 -11.05
powder, dms lb.10.25 -10.75
Sulphamerazin-sodium, USP, dms., lb.11.25 -11.75
Sulphamethazine, micro crystals lb. 8.80 - 9.30
powder lb. 8.50 - 9.00
Sulphanilamide, USP, crystals, free flowing lb. 1.40 - 1.60
microcrystals lb. 1.55 - 1.75
powder lb. 1.30 - 1.50
Sulphanilamidoquinoxaline, veterinary, dms lb. 9.00 9.25
Sulphapyridin, NF powd. bots. tins, lb. 7.00 - 7.50
Sulphapyridin-sodium, powd., bots., dms lb. 7.50 - 8.00
Sulphathiazole, USP, crystals, free flowing lb. 4.00 - 4.50
micro crystals, 99.9%, not over 10 microns, dms lb. 3.75 - 4.05
powder, dms lb. 3.50 - 3.80
Sulphathiazole-sodium, USP, dms., lb. 3.50 - 3.80
Sulphur, com'l, rubbermakers, bgs., c.l., works 100 lbs. 1.75 —
t.c.l., works 100 lbs. 2.10 2.45
crude, c.l., bulk, mines, contract, long ton.18.00 —
f.o.b. ship for domestic and Canada long ton.19.50 - —
flour, com'l, 90½%, bgs., c.l., works 100 lbs. 1.60 - —
t.c.l., works 100 lbs. 1.95 2.30
precipitated, USP, bbls., kgs lb. .27 .29
refined, flour, light refined, USP, bgs., c.l., works 100 lbs. 3.00 —
t.c.l., works 100 lbs. 3.35 3.70
heavy, bgs., c.l., works 100 lbs. 2.80 - —
t.c.l., works 100 lbs 3 15 3.50
flowers, USP, bgs., c.l., works 100 lbs. 3.85 - —
t.c.l., works 100 lbs. 4.20 4.60
Sulphur flowers in bbls., 75c. higher
rock, bgs., c.l., works 100 lbs. 2.40 —
t.c.l. works 100 lbs 2 75 3.10
rolls, bgs., c.l., works 100 lbs. 2.70 —
t.c.l., works 100 lbs 3 05 3.70
rubbermakers' bgs. c.l., works. 100 lbs. 2.35 —
t.c.l., bgs., works 100 lbs. 2.70 3.05
Chloride, 55-gal. dms. c.l., works. lb. 03¼ —
t.c.l., works lb. 04¼ —
10-gal. dms., t.c.l., works lb. 08¼ —
Dioxide, liquid, com'l, cyls., works lb. .09 —
multi-unit cars, works lb. .0535- —
tanks, works lb. 045 —
refrigeration, cyls., t.c.l., dlvd lb. 18 —
Sumac bark, 28%, grd., bgs., ex dock ton.65.00 -66.00
Extract, No. 1, bbls., 25% lb. .10½- —
No. 2, bbls., 25% lb. .09 - —
crystals, bbls lb 40 —
stainless, bbls lb 14½ —
Leaf, 28% grd., bgs., ex-dock, ton.67.00 -68.00
Superphosphate run-of-pile, under 22% a.p.a. pulv., bulk Balto unit-ton. .76 - —
Carteret, N. J unit-ton. .73 - —
triple, 48% or more, a.p.a., pulv., bulk, Tampa, Fla unit-ton. .83 —

Prices on 48% triple superphosphate in other states and D. C. are per unit-ton plus frt. charges from E. Tampa, Fla. Superphosphate, gran., 2c. per unit-ton higher than pulverized.

Sweet basil, bls lb. 1.10 - 1.25

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Talc, dom., ordinary, grd., Calif., bgs., c.l., works ton.25.00 -35.00
Vermont, bgs., c.l., works ton.14.00 —
t.c.l., works ton.17 50 —
fibrous, New York, off-color grd., bgs., c.l., works ton.24.00 —
t.c.l ton.26.50 -28.00
98.5-99.5%, 325 mesh bgs., c.l., works ton.23.00 -28.00
t.c.l., works ton.25.00 -32.00
imp., Canada, grd., bgs., c.l., mines ton.12.50 -35.00
Tallow, inedible, extra, loose, c.l., dlvd lb. .06½- —
fancy, loose, same basis lb. .06⅝- —
special, loose, same basis lb. .06½- —
sulphonated, 25%, dms lb. .06 .06½
50%, dms. lb. .08½ .09
Tamarind, W. I., bbls lb. 10 .15
kegs keg.10.00 —
Tankage, animal, feeding, 9-11% ammon, bulk unit ton. 7.75 - —
Chicago unit ton. 7.75 - —
fertilizer, 9% ammon., 10% b.p.l., Chicago unit-ton No stocks.
10-11% ammon., 15% b.p.l., bulk unit-ton No stocks.
Tansy leaves, bls lb. .24 30
Tapioca flour, high grade, bgs lb. .08 - .08½
medium grades, bgs lb. .07¼- .07½
low grades, bgs lb. .06 - .07
Java, bgs lb No stocks.
Tar acid oil, 15-18%, dms., c.l., frt. equald gal. 41 —
t.c.l., same basis gal. .44 - —
tanks, same basis gal. .33 - —
25-28%, dms., c.l., works gal. .48 - —
t.c.l., same basis gal. .51 - —
tanks, same basis gal. .40 - —
50-53%, dms., c.l., same basis gal. .60 - —
t.c.l., same basis gal. .63 - —
tanks, same basis gal. .52 - —
Tar coal (see Coaltar)
Pine (see Pinetar)
Tara pods, bgs., c.l. ex dock U. S. ports long ton. No prices.
powd., bgs., c.l., same basis long ton.225.00 Nom.
Tarragon herb, bgs. lb. .45 .50
Leaves, bgs lb. .75 - .80
Tartar emetic, tech., gran. or powd., bbls., kgs lb .46 —
dms. lb. .47 .51
USP, powd., bbls., dms., kg lb .51 .54
Terpin hydrate, com'l, bbls., c.l lb. .24½ —
t.c.l. lb. .25 .25½
NF, cryst., bbls., dms lb. .75 —
powd., bbls., dms lb .80 —
Terpineol, Alpha (see A).
com'l, dms., c.l., South lb 13½ —
t.c.l., South lb. .14 —
tanks, South lb .13 —
prime, dms lb. .33 .60
Terp'nglycol ether, dms., c.l., works. lb. 19½ —
t.c.l., works lb. .20 —
tanks, works lb. .19 —
Terpinyl acetate, extra, cns., dms. lb .60 1.03
prime, cns., dms lb. .33 .35
Terra alba (see Gypsum)
Testosterone, USP, 100 gms gm. 3.75 - —
Propionate, USP, 100 gms gm. 3.75 - —
Tetrachloroethane, dms., works lb .08½
Tetrachloroethylene, USP, 55-gal. dms., works lb. .20½ .21½
smaller dms., works lb. 23½ .25
tech. (see Perchloroethylene)
Tetraethyl orthosilicate, dms., works. lb. 76 —
Pyrophosphate, 40% cns., dms., works lb. 65 70
Tetraethylenepentamine, dms., c.l., works lb. .51½ —
t.c.l., works lb. .52 —
tanks lb. 50 —
Tetrapotassium phosphate (see Potassium phosphate)
Tetrasodium pyrophosphate (see Sodium pyrophosphate).
Thallium sulphate, 99%, bots., dlvd. lb.13.00 -15.50
Theobromine, fib. dms lb 4.50 - 4.55
Salicylate, fib. dms lb 4.00 4.05
with sodium acetate, USP, dms. lb. 3.65 3.70
Sodio-Salicylate, fib. dms lb. 2.90 2.95
Theophylline, USP, fib. dms lb. 6.00 6 15
Thiamine hydrochloride, USP, dms., 100 grams kilo.160.00 —
Mononitrate, dms., 100 grams.kilo.160.00 - —
Thiocarbanilide, dms lb. .34 .38
Thiodiphenylamine (see Phenothiazine).
Thiouracil, dms., works lb. 5.50 5.60
Thiourea, tech., dms., c.l., works lb. .42 - —
t.c.l., works lb. .44 —
Thorium nitrate, cs., works lb. 3.50 —
Threonine, dextro-laevo, 100 grams 115.00 —
Thyme, French, bgs lb. .15½- .16
Spanish, bls lb. .08½ .09
Thymol, USP, kgs lb. 3.65 3.75
Iodide, NF, dms lb. 6.80 6.90
Timbo root (see Cube root).
Tin chloride (stannous), anhyd., dms., works lb. .6985- .7085
Crystals, hydrous, bgs., bbls., works lb. .57¼- —
Metal, R.F.C. lb. .74½- —
Straits lb. .74⅜- —
Oxide, bbls. lb. .81 - .82
Sulphate, stannous, bbls., kgs., works lb. .8193- .8393
Tetrachloride, anhyd., dms., works lb. .46½- .47½
Titanium dioxide, anatase, ceramic, bgs., c.l., dlvd lb. .19½ —
t.c.l., dlvd lb. .20 .20½
chalk-resistant, bgs., c.l., dlvd. lb. .19½ —
t.c.l., dlvd lb. .20 .20½
plain, bgs., c.l., dlvd lb. .19½ —
t.c.l., dlvd lb. .20 .20½
rutile, natural, granular, bgs., c.l., works lb. .05 —
5-ton lots, works lb. .05¼- —
milled, bgs., c.l., works lb. .05¼- —
5-ton lots, works lb. .05½- —
nonchalking, bgs., c.l., dlvd. E. lb. .21½- —
t.c.l., dlvd. E lb. .22 .22½
Hydride, cns., works lb. 7.00 8.00
Pigment, calcium-rutile, base, bgs., c.l., dlvd lb. .07½ .07¾
t.c.l., dlvd lb. .08 .08¾

Titanium dioxide and pigment in bbls., ¼c. higher; Pac. coast, c.l., dlvd., t.c.l., ex whse. ½c. higher

Tetrachloride, CP, 55 gal. dms lb. .57 .58
smaller, pkgs., works lb. .65 1.22
technical, 5-gal. dms., works lb. .32 —
smaller pkgs., works lb 40 1.00
Tolu balsam, ens., dms lb. 2.50 - 2.75
Toluene (see Toluol).
Tolidin base (see Orthotolidin.)
Toluol, coaltar, industrial and nitration, tanks, works:—
Bethlehem, Pa gal. .23½- —
Birmingham dist gal. .22½- —
Chicago district gal. .24½- —
Cleveland district gal. .24¾- —
Dangerfield, Tex gal. .24½- —
Geneva, Utah gal. .19 - —
Hamilton, Ohio gal. .24 - —
Johnstown, Pa gal. .22 - —
Lackawanna, N. Y. gal. .25 - —
Philadelphia, Pa gal. .25½- —
Pittsburgh district gal. .22 - —
Sparrow's Point, Md. gal. .23½- —
St. Louis, Mo gal. .27 - —
Syracuse, N. Y. gal. .22½- —
Terre Haute, Ind gal. .25½- —
Wyandotte, Mich gal. .25 - —
Youngstown, Ohio gal. .22½- —
Petroleum, industrial, 2°, tanks, works—
Albany, N. Y gal. .28 - —
Bayonne, N. J. gal. .28 - —
Baytown, Tex. gal. .25 - —
Chicago, Ill. gal. .27 - —
Detroit, Mich. gal. .28 - —
Philadelphia, Pa. gal. .28 - —
Providence, R. I. gal. .28 - —
Wood River, Ill. gal. .25 - —
Tonga, 50% bark and vine, bls. lb 80 .95
Tonka beans, Angostura, cks lb. 1.75 1.80
Brazilian, cs lb. 1.00 - 1.15
Surinam, cs. lb. 1.00 - 1.15
Toxaphene, dms., works, c.l lb. .20 —
truckloads, works lb. .20 —
ton to truckloads, works lb. .23 —
less than tons, works lb. .26 —
Totaquine, USP, 100-oz. lots oz. .42 —
Triacetin, dms., dlvd lb. .35½- —
Tributyl citrate, dms. lb. 41 .43
smaller containers lb. .46 .52
Phosphate, dms., c.l., frt. alld. lb. .56½- —
t.c.l. lb. .57½- —
smaller containers lb. .71 —
Tributylamine, dms., c.l., works lb. .78 - —
t.c.l., works lb. 81 —
Trichlorbenzene, dms., c.l., works, frt. alld. or equald lb. .10 —
t.c.l. lb. .11 - —
tanks lb. .08½- —
Trichlorethane, dms., c.l., works lb. .13 - —
t.c.l., works lb. .13½- —
tanks, works lb. .11½- —
Trichloroethylene, dms., c.l. or truckload, works, frt. equald. lb. .10¼- —
t.c.l., same basis lb. .11 - —
tanks, same basis lb. .09¾- —
tanks, frt. alld., zone 1 lb. .10½- —
Zone 2 lb. .11 - —
Zone 3 lb .11½ —
Zone 4 lb. .11½- —

Trichloroethylene, dm., c.l., prices ½c. higher, t.c.l. 1½c. higher, Zones are—(1) Conn., Del., Ill., Ind., Ia., Ky., Me., Md., Mass., Mich., Minn., Mo., N. J., N. H., N. Y., N. C., Ohio, Pa., R. I., Tenn., Vt., Va., W. Va., Wis., Omaha, K. C., Kan.; (2) Ala., Ark., Fla., Ga., Kan., La., Miss., Neb., N. D., Okla., S. C., S. D.; (3) Col., Mont., (E) N. M., Tex., Wyo.; (4) Ariz., Cal., Idaho, Mont. (W), Nev., Ore., Utah, Wash

Tricholine citrate, 65% solut., ret., cbys., works, frt. adjusted lb. 2.15 - —
Tricresyl phosphate, coaltar, dms., c.l., dlvd lb. .30½- —
t.c.l., dlvd. lb. .31 - —
tanks, dlvd lb. .29 - —
petroleum, dms., c.l., dlvd lb. .30½- —
t.c.l., dlvd. lb. .31 - —
tanks, dlvd. lb. .29 - —
Triethanolamine, dms., c.l., frt. alld. E lb. .23 —
t.c.l. same basis lb. .24 - —
tanks, same basis lb. .21½- —
Triethylamine, dms., c.l., works, frt. alld lb. .31½- —
t.c.l., same basis lb. .32½- —
tanks, same basis lb. .30 —
Triethyl citrate, dms lb. .34 .36
smaller containers lb. .39 .44
Phosphate, dms., works, c.l. lb. .38 —
dms., t.c.l., same basis lb. .39 —
tanks, same basis lb. .37 —
Triethyleneglycol, dms., c.l., frt. alld. E lb. 20½- —
t.c.l., same basis lb. .21½- —
tanks, same basis lb. .19 —
Triethylenetetramine, dms., c.l. works lb. .51½- —
t.c.l., works lb. .52 - —
tanks lb. .50 —
Trimethylamine, 25%-40% dms., c.l. works, frt. equald., basis 100% lb. .38 —
t.c.l., works, frt. alld., basis 100% lb. .38½- —
tanks, works, frt. equald., basis 100% lb. .33 - —

Trimethylhexanol, dms., c.l., works. lb. 29¼ - —
l.c.l., works lb. .30 - —
tanks, works lb. 28 - —
Tripentaerythritol, bgs., l.c.l., works. lb. .36 —
Triphenyl phosphate, bbls., c.l., frt. equald lb. .31 —
l.c.l., frt. equald lb. .32 —
Triphenylguanidine bbls., works lb. .90 —
Tripoli air-floated, bgs., c.l., works. lb. 0175 —
double-grd., bgs., c.l., works lb. 016 - —
single-grd., bgs., c.l., works lb. 015 - —
Trisodium fluoroacetate (see sodium fluoroacetate tribasic).
Trisodium phosphate (see Sodium phosphate, tribasic).
Trypsin, 1:25, dms., works lb. 2.30 —
1:50, dms., works lb. 4.25 - —
1:75, dms., works lb. 5.50 —
1:100, fib. dms., works lb. 5.50 —
Tryptophane, dextro-laevo, fib. ctns. works kilo. 207.00 -242.00
Tuba root (see Cube root).
Tungsten metal powd., 99.9%, dms. works lb. 4 75 —
Oxide, kgs., works lb. 2.85 —
Turmeric root, Alleppey, bgs lb. .38 Nom.
Haitian, bgs lb. No stocks.
Jamaica, bgs lb. .10½ Nom.
Madras, bgs lb. .18 - .19
Turpentine, gum (see Naval Stores Protective Coatings market).
Sulphate, ret. dms., East gal. .23 —
Turpentine, wood dest.-dist., dms., incl., c.l., works, South gal. .40 - —
l.c.l., same basis gal. .41 —
N. Y. whse gal. .47 - —
tanks, works, South gal. .27½ —
steam-dist., dms., incl., c.l., works gal. .50 —
l.c.l., works, South gal. .56 - —
ex whse., NYC gal. .64 - —
tanks, works gal. .34 - —
Tyrothricin, bots. gram 1.15 1.25

## U

Urethane, USP, dms lb. 1 50 - —
Unicorn root, false (see Helonias root).
True (see Aletris root).
Uranium oxide, black, bgs lb. 2.53 - —
yellow, kgs. lb. 1.65 - —
Urea, dom., 46% N, bgs., c.l., wks. lb. .04½ - —
l.c.l., works lb. .05 - —
fertilizer compound, 42% N, bulk, c.l., 30 tons, frt. alld. Kan., Neb., N. Dak., Okla., S. Dak., Tex. and east ton. 94.00 - —
bulk, distributors, c.l., 40 tons, frt. alld. Colo., Mont., Wyo., and west ton. 103.58 - —
30 tons, frt. alld. Kan., Neb., N. Dak., Okla., S. Dak., Tex., and east ton. 98.00 - —
40 tons, distributors, frt. alld. Colo., Mont., Wyo., and west ton. 107.15 - —
Urea-ammonia liquor, A and B grades, N basis, Belle, W. Va ton. 125.00 - —
C and D grades, same basis. ton. 123.50 - —
37 grade, same basis ton. 147.50 - —
Uva ursi leaves, bls lb. .10 - .14

## V

Valerian root, Belgian, NF, bls lb. .40 - .45
Valine, dextro-laevo, dms., works lb. 22.50 -27 50
Valonia beards, bgs., ex dock ton. No stocks.
Cups, bgs., ex dock ton. 52.00 - —
Extract, powd., bgs., ex dock, duty extra lb. .14 - —
Vanadium pentoxide, CP, bgs., cns., works lb. 7.00 - —
tech., dms., works lb. 1.00 - 1.06
Vanilla beans, Bourbon, tins lb. 4.50 - 4.75
Mexican, cuts, tins lb. 6.25 - 6.50
whole, tins lb. 7.50 - 7.75
Vanillin, ex eugenol, tins, 25 lbs lb. 4.00 —
smaller lots lb. 4.05 —
ex guaicol, tins, 25 lbs lb. 3.00 - —
smaller lots lb. 3.05 - 3.15
ex lignin, tins, 25-lb. lots lb. 3.00 - —
smaller lots, tins lb. 3.05 - 3.15
Vinyl acetate, 55-gal. dms., works lb. .16 - .16½
5-gal. cns., works lb. .30 - —
tanks, works lb. .15 - —
Trichloride (see Trichloroethane).
Ether (see Ether, divinyl).
Vinylpyridin, ret. dms., works lb. 1.50 - —
Viosterol, in alcohol, 1,000,000 D units per gm., bots., lots of 10 billion USP units 1,000,000 units. .025 - —
lots of 1 billion USP units. 1,000,000 units. .03 - —
lots of less than 1 billion USP units 1,000,000 units. .033 - —
in neutral vegetable oil, 400,000 or 1,000,000 D units per gm., bots., lots of 10 billion USP units 1,000,000 units. .02 - —
lots of 1 billion USP units. 1,000,000 units. .025 - —
lots of less than 1 billion USP units. 1,000,000 units. .03 - —
Vitamin A, natural, 200,000 to 350,000 A units per gm., bots., cns., dms., lots of 2,500 million units or more 1,000,000 units. .30 - —
lots of 500 to 2,499 million units 1,000,000 units. .31 - —
lots of less than 500 million units 1,000,000 units. .34 - —
351,000 to 450,000 A units per gm., bots., cns., dms., lots of 2,500 million units or more 1,000,000 units. .32 - —
lots of 500 to 2,499 million units 1,000,000 units. .33 - —
lots of less than 500 million units 1,000,000 units. .36 - —
451,000 to 750,000 A units per gm., bots., cns., dms., lots of 2,500 million units or more 1,000,000 units. .34 - —
lots of 500 to 2,499 million units 1,000,000 units. .35 - —
lots of less than 500 million units 1,000,000 units. .38 - —
751,000 or more A units per gm., bots., cns., dms., lots of 2,500 million units or more 1,000,000 units. .36 - —
lots of 500 to 2,499 million units 1,000,000 units. .37 - —
lots of 500 to 2,499 million units 1,000,000 units. .39 - —
A, natural, concentrates (see Oil, fishliver).
A, synthetic, acetate, 1,000,000 A units, per gm. 1,000,000 units. .30 - —
A, synthetic, palmitate, 800,000 A units per gm., frt. adjstd. 1,000,000 units. .30 - —
$D_3$ (see Calciferol).
$B_1$ (see Thiamine hydrochloride).
$B_2$ (see Riboflavin).
B complex, natural (see Rice bran and Yeast).
Vitamin $B_6$ (see Pyridoxin).
C (see Acid, ascorbic).
D (see Oils, codliver and fishliver, Calciferol and Viosterol).
E (see Alphatocopherol and Oil, wheatgerm).
G (see Riboflavin).
P-F (see Acid, nicotinic, and Nicotinamide).
H (see Biotin).
Violet, methyl toner (see Blue, methylviolet toner).
V.M.P. naphtha (see Petroleum naphtha).

## W

Wahoo root bark, bls lb. 1.50 1.75
Tree bark, bls lb. .55 - .75
Wattle bark, fair average, or E. Afr., bgs., ex dock ton. 65.00 - —
merchantable, bgs., ex dock ton. 62.50 - —
Wattle bark, extract, liquid, 35% tannin, bbls., works lb. .04¾ - .05
tanks, works lb. .04¼ —
solid, E. Afr., 61% tannin, ex dock, duty extra lb. .06¾ - —
S. Afr., 62% tannin, ex dock, duty extra lb. .06¾ - —
Wax, amorphous (see Wax, microcrystalline).
Bayberry, bgs., spot lb. .49 - .51
Wax, bees, bleached, USP, bricks, cs. lb. .62 - .63
slabs, bgs lb. .61 - .62
crude, African, bgs lb. .42 - .43
Brazilian, bgs lb. .51 - .52
Cent. American, bgs lb. .48 - .50
refined, yellow, bricks, cs lb. .52 - .53
slabs, bgs. lb. .51 - .52
Candelilla, crude, bgs lb. .46 - .47
refined, bgs lb. .49 - .50
Powdered candelilla, 20 mesh, 5c per lb extra; 80 mesh, 5½c.; 100-200 mesh, 6c.
Carnauba, chalky, bgs., ton lots lb. No stocks.
North Country, No. 2, ton lots lb. .84 - .85
No. 3, crude, bgs., ton lots lb. .81 - .82
refined, bgs., ton lots lb. .85 - .86
yellow, No. 1, bgs., ton lots lb. 1.08 - 1.10
No. 2 lb. 1.06 - 1.08
Powdered carnauba price differentials same as powdered candelilla.
Japan, bgs lb. .70 - .75
Microcrystalline, 170°-175° m.p., ASTM, amber, ctns., 20,000 lbs., group 3, works lb. .14 - —
Less than 20,000 lbs., same basis lb. .15 - —
black, ctns., 20,000 lbs., same basis lb. .12½ - —
Less than 20,000 lbs., same basis lb. .13½ - —
white, ctns., 20,000 lbs., same basis lb. .25 - —
Less than 20,000 lbs., same basis lb. .26 - —
180°-185° m.p., ASTM, black, ctns., 20,000 lbs., same basis lb. .14½ - —

### Trimethylhexanol—White Precipitate

Wax, microcrystalline, 180°-185° m.p., ASTM, amber, ctns., 20,000 lbs., same basis lb. .16 - —
Less than 20,000 lbs., same basis lb. .17 - —
Less than 20,000 lbs., same basis lb. .15½ - —
white, ctns., 20,000 lbs., same basis lb. .27 - —
Less than 20,000 lbs., same basis lb. .28 - —
190°-195° m.p., ASTM, amber, ctns., 20,000 lbs., same basis lb. .20½ - —
Less than 20,000 lbs., same basis lb. .21½ - —
190°-195° m.p., ASTM, black, ctns., 20,000 lbs., same basis lb. .19 - —
Less than 20,000 lbs., same basis lb. .20 - —
white, ctns., 20,000 lbs., same basis lb. .23½ - —
Less than 20,000 lbs., same basis lb. 24½ -
Montan, dom., black, raw lb. .25 - .25½
refined lb. .31 .32
Bohemian, bgs lb. .16½ - .17
German, bgs lb. .16½ - .17
Ouricury, refined, bgs., ton lots lb. .81 - .82
Paraffin (see P.).
Spermaceti, blocks, cs lb. .27 .30
cake, cs. lb. .28 - .31
Wax, sugar cane, crude, imp., bgs lb. .35 - .37
refined, dom., slabs, works lb. .60 .65
imp., bags, N. Y. lb. .40 - .41
White lead (see Lead, white).
White pine bark, rossed, bls lb. .18 - .20
White precipitate, USP, powd., dms., 50 lbs lb. 2.00 —

—Continued on page 61


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2. Roche has substantial inventories on hand.
3. Roche can make immediate shipment.

**THE THREE FREEDOMS**

**NEW BUYING FREEDOM.** Both the acetate and palmitate esters of synthetic vitamin A 'Roche' are in steady supply, just like the vitamins $B_1$, $B_2$, $B_6$, C and E. We produce by the tons, so that you can at last learn the habit of ordering when and as needed, at the prevailing market.

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WILLIAM S. AUCHINCLOSS, *President*
30 Church Street, New York 7, N. Y., U. S. A.
Telephone, REctor 2-9820; Cable Address: Reporter, New York

Volume 157 March 6, 1950 Number 10


## *The Bugs Are Coming*

Prognosticators are proclaiming that 1950 is going to be the year of the big bug invasion. The easy winter has been good for grasshoppers, boll weevils, and corn borers, as well as dozens of less widely operating entomic larvae and imagines. That means they will be bad for the crops of agriculturists, horticulturists, and others who derive their livelihood from the vegetable kingdom. And because of the modern idea that such livelihoods must be guaranteed also by a so-called "democratic" government, it is not likely that one will hear again the popular prepaternalism averment that the boll weevil was the cotton planter's best friend. Crop curtailment is a very different matter in these days.

But, the bugs are coming. And all the new insecticidal agents which organic chemistry has developed will not stop their invasion unless they—the older weapons must not be forgotten in any event—are properly and adequately applied. The National Agricultural Chemical Association is doing a Paul Revere act to get the farmers of the land embattled against their entomic enemies which, relatively, can be as damaging as the more widely discussed atomic type.

Much is being said about the new method of committing insecticide by internal treatment of the plants to be protected. The insecticidal agents, applied by way of seed, root, or leaf, permeate the plant structure and make it toxic to both sucking and chewing insects.

These agents, mostly phosphorus compounds, are still only in the promising stage. They work on an experimental scale, as far as killing bugs is concerned. What they may do to the part of the plant designed to be eaten by man or lesser animals is still a question. It has a corrolary of whether decomposition of the compound into alimentary harmlessness is to be expected, and if so, whether that would leave the plant open to attack by insects.

The physicists are, as yet, only skirting the insecticidal field with their astounding applications of supersonic waves as destructive agents. These weapons are reported to have been proved effective as rodenticides. But, the practicability of their application, as well as its commercial status, has not at all been determined. In view of what has been done in other areas of mass mechanical treatment of growing crops, the vibratory bug-killer may not be far off. However, as for now, adequate distribution and application of yesterday's and even last year's types of insecticidal agents is the thing to be thought about and worked on.

## *What Does It Mean—'Free'*

There is not in this country a more highly regarded popular term than "free enterprise." Few, if any, are more frequently used to praise one cause or to damn another. And most of those who speak it or write it or hear it give it a concrete meaning which, in practice, it does not have. It is a shibboleth of wide appeal. But that to which it is usually applied does not, upon proper analysis, provide realistic support.

Enterprise is not free. And it is not, by any means, only governmental edict by which it is confined. Why that group of interferers with its freedom gets almost all the attention of the advocates of the utmost freedom is one of the things which make practical commercial economics such a confused and confusing thing.

Certainly none can say that there is more than a trace of freedom of enterprise in the soft-coal industry today —or at any other time, no matter how peaceful its operations. The same is true of every large industry, and it is true of every industry and other activity which must depend upon, for example, coal for fuel, steel for material, or men for work.

Few of those who endeavor to wrestle with the problems of commercial economics give adequate thought to the variety of restrictions by which enterprise is constrained. They know that there are laws which proscribe more or less rigidly various practices which have always been a part of doing business. They know that governmental administrative agencies by some strange quirks of representative legislating can and do place restrictions on the planting of crops and the importing and exporting of various commodities. They know that sales of many goods to the consumer are restricted in a number of ways. They have seen the approving by the Supreme Court of the United States of a congressional restriction of Puerto Rican sugar refining and the shipment of Puerto Rican sugar to the mainland.

In many cases these proscriptions are accepted as a matter of course. The average human intellect knows that politicians are merely talking when they declaim that a man's freedom is indivisible; that he must not be half free and half slave, freedom and slavery being relative terms based on what their user desires to prove. Men know that the human race is not qualified for 100-percent freedom; its shortcomings have been proved for centuries. Almost all believe and declare that enterprise should be subjected to less governmental restriction. It can be said that such restriction is overdone. But why do so few ever say anything about the far more hampering restrictions laid in strikes and otherwise by disgruntled employees?

Why did a Massachusetts court issue an injunction against the sale of the plant of a shoe manufacturer who desired to move to another state? Certainly, there is no freedom of enterprise under such restraint. What is there of freedom about an enterprise that must have governmental financial help to keep going? What, particularly, is there free about the interference of sit-in employees with the desire of a New York manufacturer of greeting cards to move its plant to another city? Why was it necessary to seek a court order to dislodge the trespassers? The functioning of local police forces has come upon some funny debilities. That sit-in mess really was a job for a vigorous pest exterminator.

If enterprise is really to have the freedom about which its spokesmen and advocates are so ready to boast or to weep, it must take upon itself a better semblance of free men, able and willing to work and fight for their freedom, not merely to talk about something by that name.

## *Give 'Em a Chance*

Comes now the season of trade conventions—conferential, conversational conclaves of great value. Not the least of the contributions to the purpose and the potentialities of these gatherings is that of invited guest speakers, even of those who eventually terminate the annual banquet session. These contributors deserve all possible consideration.

After sitting through three hours of reports, prognostications, and palaver of officers of a California chamber of commerce some ten dags ago, Dr. Robert A. Millikan, noted scientist, who had been invited to deliver the principal address, introduced and ovationed in the customary manner, arose and said:—"At this hour, I fear the mind is too weary to listen to the speech I have prepared. I had intended to discuss one of the chapters in my new book, 'The Road to Peace.' Any of you who are interested may read the book." Then he sat down.

Several years ago, one of the best-known deliverers of entertaining addresses had to sit through one of those customary postprandial presentations of three score and ten personages at the headtable and a score or so spied in the general assemblage. The toastmaster—that was before the days of the master of ceremonies—finally got around to the speaker of the evening—and took another quarter-hour to display his just-acquired acquaintance with that notable. Finally, with the customary flourish, he said:—"Mr. —— will now give us his address." Mr. —— obligingly arose, saluted as many of the personages as he could recall by name, and said:—"My address is 35 West Ninth street, New York. Good night!" —and stalked out.

Not all speakers of the evening are so frank in their reaction to treatment which cannot but irk them. It is regrettable that more are not. They certainly deserve more consideration than they often get. If there is any reason for having a speaker, he should be given every chance to show it.

## *For the Bookshelf*

COPPER IN CALIFORNIA. Prepared under the direction of Olaf P. Jenkins. Cloth; 429 pages. San Francisco: Division of Mines.

Mr. Jenkins, who is chief of the Division of Mines in the California Department of Natural Resources, was assisted by six cooperating authors and the United States Geological Survey and Bureau of Mines and the Department of Mining at Stanford University. The result is a very informative report on the copper resources of the state, arranged in three parts:—(I) Detailed reports on the foothill copper belt; (II) economics and treatment of ores, with a good chapter on marketing and metallurgy; (III) tabulation of copper properties, with sixty pages of tabulated data on deposits. Appended are a twenty-nine-page bibliography and forty-one pages of index. Along with the book goes a 71-cubic-inch "pocket" containing sixty-one maps.

This useful compilation about a very important material is known as bulletin 144 of the Division of Mines, which has its headquarters in the Ferry building, San Francisco.

## *Washington Talks*

—*Continued from page 5*

edge of the composition and properties of gum turpentine. This must be known if a chemical industry based on this material is to be developed. The task of acquiring this knowledge has been made one of the major aims of the Naval Stores Research Division of the department.

### Petroleum Probe Proposed

Representative Clarence Cannon of Missouri wants the Federal Trade Commission to broaden its investigation of international petroleum cartels to include an exhaustive study of the operations of the industry in this country. He proposes to give the commission $250,000 to make the inquiry.

Mr. Cannon gives no hint of what's behind the proposed investigation, but from a reading of the resolution it was evident that he is fearful that the United States soon may be running out of oil and be dependent upon foreign sources for our requirements. One thing he wants FTC to report on is action that should be taken by congress "to protect and preserve the oil resources and reserves for the benefit of the general public."

The only difficulty about the resolution, however, is that the investigation proposed by Mr. Cannon is no different from that which has been underway for years by the house interstate and foreign commerce committee. The only thing is that FTC would do it instead of the committee.

Whether the committee will like to have one of its pet projects taken out of its hands is problematical. The tip-off will be whether the committee decides to do anything with the Cannon resolution. Speaker Rayburn referred the resolution to the committee for study and decision whether to turn its job over to FTC.

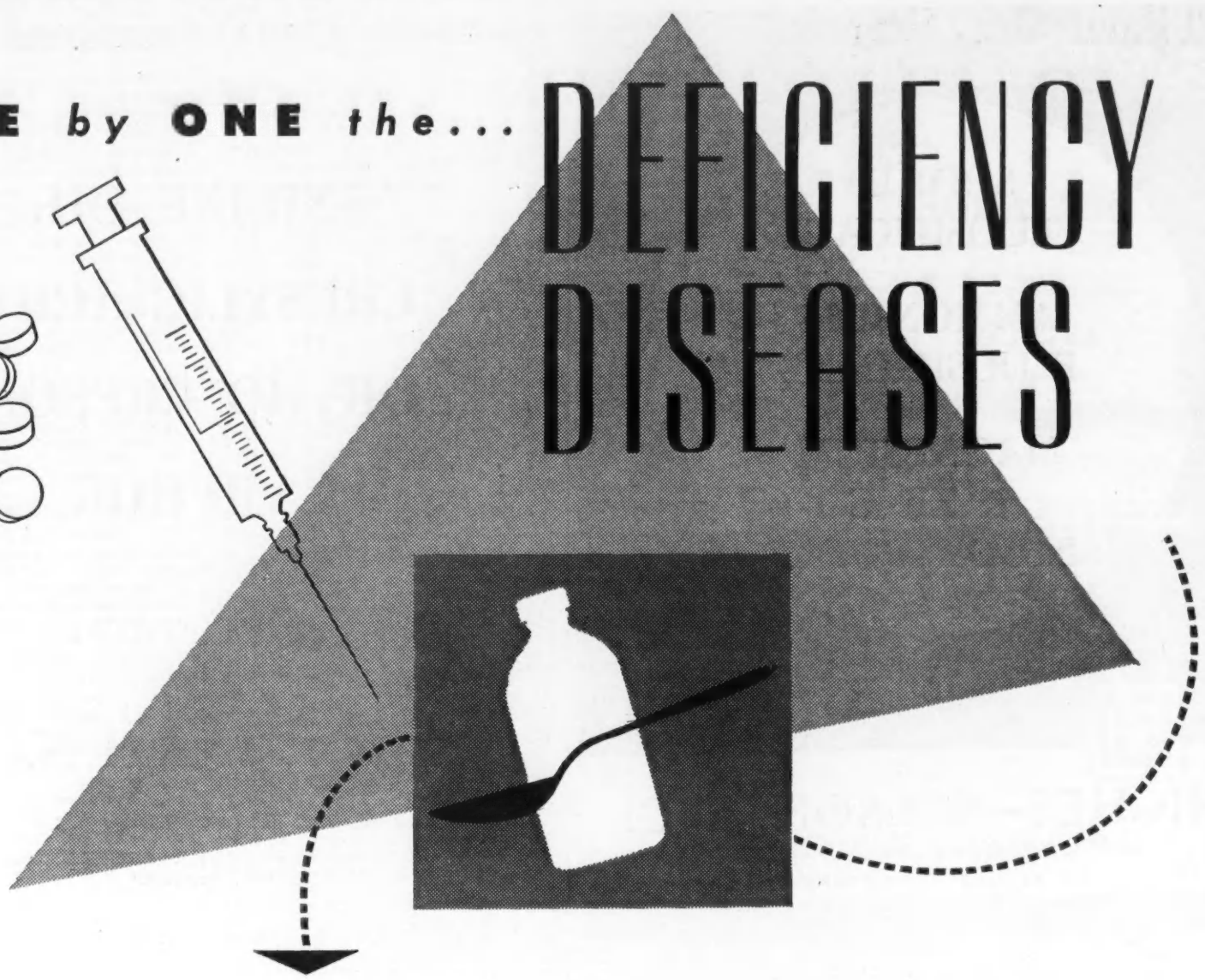
### Crops for Alcohol

In case some people have been wondering why the potatoes that are pilling up on the government are not turned over to industry for manufacture into alcohol for motor fuel, the answer is a simple one. It can't be done economically, even when the potatoes are given free.

The way it works out is something like this. The cost of transporting potatoes from Long Island to Philadelphia, for example, runs around 20 cents per 100 pounds. From each 100 pounds it is possible to get one gallon of alcohol, thus far the alcohol costs 20 cents a gallon. The bags in which the potatoes were packed can be sold for 10 cents each, reducing the cost of the alcohol to 10 cents a gallon, but the cost of getting the alcohol out of the potatoes runs around 15 cents a gallon, making the total cost of the alcohol 25 cents before taxes.

It has often been said that one way to eliminate the problem of overhanging farm surpluses is to convert the surpluses to motor fuel. But this shows that there are limitations to this theory, even when the raw material is free. Unless the plants are close by, even materials given free become expensive.

In the case of corn, however, the story may be a little different if congress continues with its present program of high price supports regardless of the result. If corn stocks in the hands of the government become so great that they can only be disposed of by being given away or sold at a ridiculously low price of 25 cents or less a bushel, it might be possible to make corn alcohol motor fuel in competition with petroleum. The breakeven point is around 25-cent corn.

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# Heavy Chemicals

Acid index number advanced to 121.9 last week, compared with 121.8 in the preceding period. Muriatic acid was priced higher in tankcars and some producers advanced carboy quotations. Sulphuric acid was definitely firmer with suppliers in some instances naming higher prices and prospects favorable for a general nearby advance. Producers of both acids have been forced to recognize the steadily mounting manufacturing costs. Antimony metal was reduced, the market continuing its downward course which started early in October last year. RFC did not alter the price of tin but prices in the outside market revealed a fractional decline and a late recovery.

Chlorine in tankcars remained definitely short. Carbon tetrachloride output has been kept down by the tight position of chlorine. Production of copper sulphate has been tuned up to capacity levels and the market is rapidly working into an evenly balanced condition. The recent cold snap brought out an increased inquiry for calcium chloride in this area.

Coal shortage is becoming more serious to chemical production with each successive week. Some of the largest suppliers have been required to shutdown certain units and more are in prospect. Producers of caustic soda and soda ash who do not purchase their power have greatly reduced reserve coal stocks. It was stated that much of this reserve coal is mixed with snow and ice thereby reducing its power efficiency. General demand for heavy chemicals has shown more irregularity with a tendency to slow down as the major consuming industries are feeling the coal pinch as well as the producers.

Twelve wholesalers of industrial chemicals reporting to the Bureau of the Census aggregate sales of $899,000 in December showed a loss of 12 percent from November. Nine wholesalers showed a gain of 3 percent in inventories from the preceding month. In comparison with December, 1948, their sales were down 15 percent and their inventories were down 4 percent.

Paper production based on a percentage of six-day capacity was 101.3 percent for the week ending February 25, according to the American Pulp and Paper Association. This compared with 100.2 in the preceding week and 90.6 for the corresponding week in 1949.

*Production figures appearing below, unless otherwise designated, are from the Bureau of the Census, Department of Commerce, and the Chemical Division of the Tariff Commission.*

**Ammoniac, Sal**—Demand for white granular continued fairly steady for use in the manufacture of dry batteries. Inquiry from other consuming sources not unusually active. Stocks maintained at a level to meet requirements without difficulty.

Brazil imported approximately 275 metric tons of ammonium chloride in 1949, according to trade sources. It is believed that 200 tons came from the United Kingdom, 60 tons from the United States, and 15 from Belgium.

**Arsenic** — Insecticide manufacturers have shown interest in the market during the past month and demand from the glass industry has continued steady. There appeared to be sufficient stocks to meet requirements readily at former price levels. November imports of white arsenic were 840,000 pounds including 794,000 pounds from Mexico and 50,000 from Belgium. The total was 39 percent over October and the highest for any month since last June.

**Calcium Carbide** — Frankfort advices place December production in Germany at 49,600 metric tons, compared with 38,400 in the preceding month.

**Carbon Bisulphide**—Production in December totaled 35,609,505 pounds, compared with 34,547,142 in the preceding month and 37,567,527 pounds in December 1948.

**Carbon Tetrachloride** — December output amounted to 19,178,705 pounds, against 17,154,033 in November and 20,343,295 pounds in December 1948. Stocks at present are not too plentiful. Production has been aggravated by the tight position of chlorine and the shortage of coal.

**Chlorine**—Maintenance of heavy demand kept the supply situation tight. It was stated production has remained at a high level but has been aggravated by the coal shortage. Inquiry has continued active from the chemical industry and substantial amounts have been shipped to the paper mills.

**Copper Sulphate**—Supply situation has shown improvement but still rather tight. One of the suppliers lost about a month's production on account of a recent strike but is now operating at capacity and it looks as though supply and demand will be leveled off shortly. Inquiry for agriculture is showing seasonal expansion with Spring shipments commanding the most attention. Industrial demand has held steady to date with outlook uncertain as a result of the coal shortage. November exports totaled 6,294,000 pounds including 1,610,000 pounds to Honduras, 1,824,000 to Panama and 1,250,000 pounds to Costa Rica. October exports amounted to 7,573,000 pounds.

**Fluorspar**—Production and shipments of fluorspar in the United States were about 235,000 and 238,000 short tons, respectively, in 1949, declines of 30 and 28 percent from 1948, according to the Bureau of Mines. Imports were 95,619 tons in 1949 and, though 14 percent less than the all-time high of 1948, were exceeded by only two other years. Consumption of fluorspar was about 346,800 tons in 1949, a decrease of 15 percent from 1948.

Consumption of fluorspar continued its down trend in the fourth quarter of 1949, was 15 percent less than in the preceding quarter, and the smallest since the first quarter of 1946. The decline resulted chiefly from the strike in the steel industry. As a consequence of the lessened demand for fluorspar, production schedules at many domestic mines were reduced and shipments curtailed. Production and shipments of domestic fluorspar were the smallest and second smallest since the inception of this series of reports in 1942. Imports in the fourth quarter, however, were up 23 percent from the preceding quarter.

**Glauber's Salt**—Production held about steady in December, the total registering 15,614 tons, against 15,990 tons in the preceding month. In December, 1948, output totaled 13,064 tons.

**Nickel Sulphate**—While production is sold through April in some instances, other producers have stocks available for prompt shipment. Demand has turned somewhat spotty for plating use probably by uncertainty of production occasioned at consuming plants on account of the coal situation.

**Salt**—Based on reports from producers, representing a large proportion of the total evaporated and solar salt production in the continental United States, shipments during the month of December, 1949, were 176,453 tons of evaporated salt and 52,529 tons of solar. Total shipments for the year 1949 were 2,579,230 tons.

**Salt Cake**—Commercial production in December totaled 39,725 tons, compared with 43,022 in November and 58,804 tons in December, 1948. Demand from the kraft paper mills and also the glass plants has continued active enough to hold the market for domestic material steady.

**Soda Ash**—Market position steady with production somewhat aggravated by the coal situation. It was stated that producers are tapping their coal reserves which are often mixed with snow and ice which lessens its efficiency. Demand and supply remained about in balance with reasonable quantities still available for prompt shipment.

Brazil's imports of soda ash in the first half of 1949 totaled 20,263 metric tons, valued at $1,216,200, the Ministry of Finance reports. The United States supplied 7,947 tons ($514,450). Imports of caustic soda amounted to 28,292 tons, worth $3,731,450; those from the United States totaled 20,158 tons ($2,752,000).

**Soda, Caustic**—No shortage at the

*For Late Market Developments, See Page 4*

## *Market Trends*

**Prices Advanced**

Muriatic acid, $2 per ton in tankcars.

**Prices Reduced**

Antimony metal, 2¾c. per lb.

**Comparative Price Indexes**

(100—August 1, 1914)

*General Chemicals*

| Last week | Prev. week | Last month | Dec. 30, 1949 | Mar. 4, 1949 |
|---|---|---|---|---|
| 213.8 | 213.8 | 213.8 | 216.4 | 234.1 |

*Acids*

| Last week | Prev. week | Last month | Dec. 30, 1949 | Mar. 4, 1949 |
|---|---|---|---|---|
| 121.9 | 121.8 | 121.8 | 121.8 | 122.8 |

(*For Current Prices see Page 9*)

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present time. It was stated that stocks in the southwest are freer than in the northern areas. General demand held about steady at the preceding month's level.

Production of caustic soda in western Germany amuonted to 25,000 metric tons in December, against 22,800 in November, according to Frankfort advices. Output of soda ash was 54,800 metric tons, compared with 48,000 in November.

**Sodium Chlorate** — Supply position tight with production geared to meet requirements of contract consumers without any surplus for additional wants. Demand for agriculture and industrial uses maintained at a high level.

**Sodium Phosphate**—Production of tribasic in December amounted to 5,000 tons, compared with 5,788 in November and 6,802 in December 1948. December output of meta totaled 2,688 tons, against 2,647 tons in the preceding month and 2,977 tons in December 1948. Production of tetra in December was 7,444 tons, compared with 7,123 in November and 5,953 tons in December 1948.

**Sodium Sulphate** — December production of anhydrous refined was 14,324 tons, compared with 13,161 in November and 15,787 tons in December 1948.

## Acids

**Acetic**—Production of synthetic in December amounted to 38,190,275 pounds, compared with 38,623,056 in the preceding month and 41,344,762 pounds in December 1948. Recovered acid in December was 160,736,485 pounds against 149,152,399 in November and 155,382,903 pounds in December 1948. Output of natural was 1,633,579 pounds in December, compared with 1,299,634 in November and 2,151,619 pounds in December 1948.

**Chromic**—Supply position comfortable at the beginning of the month. Inquiry for plating use fair but not as broad as noted a month ago on account of reduced activity in some of the major consuming industries.

**Muriatic**—Higher prices were established for the different strengths in tankcars last week. The advance was $2 per ton. Carboys were advanced by some producers 25c. per 100 pounds. The advance was attributed to increased manufacturing costs. For 18° in tankcars $20 per ton was named. The 20° test was priced at $22 and the 22° at $27 per ton, all prices f.o.b. the works.

**Oxalic**—Market conditions revealed no important change over the turn of the month. Consumers have not found stocks a problem and are not inclined to extend commitments beyond the limit of actual requirements.

**Phosphoric**—Total production in December amounted to 114,871 tons including 60,589 tons made from phosphorus and 54,282 made from phosphate rock. November production was revised to 118,217 tons and output in December, 1948, was 109,149 tons.

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forced some of the producers to advance the price for tankcar shipments. The new schedule shows 60° at $14.40 to $14.50 per ton, 66° at $17.75 to $18. For 98 percent $19 was named and for fuming 20 percent $20. All producers had not followed the advance up to press time. All tankcar prices are f.o.b. the works. No change in carboy prices was announced.

## Nonferrous Metals

**Antimony** — Priced lower at 24½c. per pound for bulk at the mines and 25c. for cases. This is a decline of 2¾c. per pound.

**Copper**—Demand, while a little more spotty, averaged good. It was stated that tonnage booked for February was close to 100,000 tons and that 75,000 tons for March are now on the books with prospects for April encouraging. The market for electrolytic was steady at 18½c. per pound delivered valley basis.

**Lead**—Colder weather last week brought out a moderate increase in demand from the battery industry. It was pointed out, however, that the lateness of the season will prevent any substantial improvement from this consuming source. General demand was described as fair with prices for the common grade holding at 12c. per pound New York and 11.80c. St. Louis basis.

**Quicksilver** — Demand continued slow with an absence of new developments. It was stated that $71 per flask would be acceptable for 100 flask lots with smaller quantities ranging from $73 to $75, according to seller and quantity.

*San Francisco.*—There has been no change or increase in demand here with metal quoted at $73 per flask.

**Silver**—Prices of bullion remained at 73¼c. per ounce, this figure continuing unchanged since early September, 1949. Regardless of the loss of the Chinese market, it is expected that Mexico will use all production this year without much difficulty. It is stated that the Indian market may take more silver than in the past. In that event, the price of the metal may show some strength, particularly if the demand in this country from industry should continue at its present high rate.

**Tin**—No change in RFC price from 74½c. per pound. The outside market declined to 74c. and recovered to 74⅜c. spot at the close. Trading did not exceed moderate dimensions with small lots commanding the most attention.

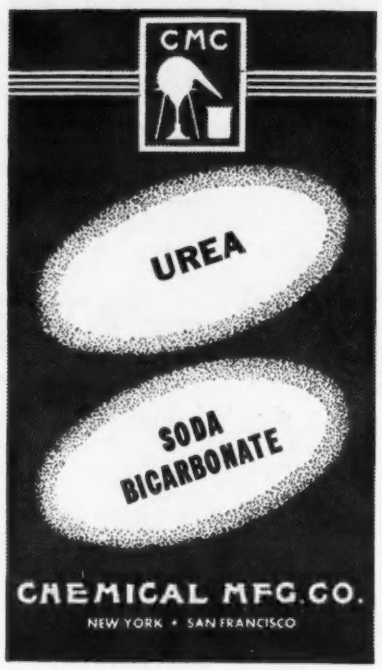
**Zinc**—Buying interest was sustained at a fairly satisfactory level over the turn of the month. Demand was of miscellaneous character. Production at some plants has been cutback by insufficient supplies of coal. Prime western sold at 9¾c. per pound East St. Louis basis.

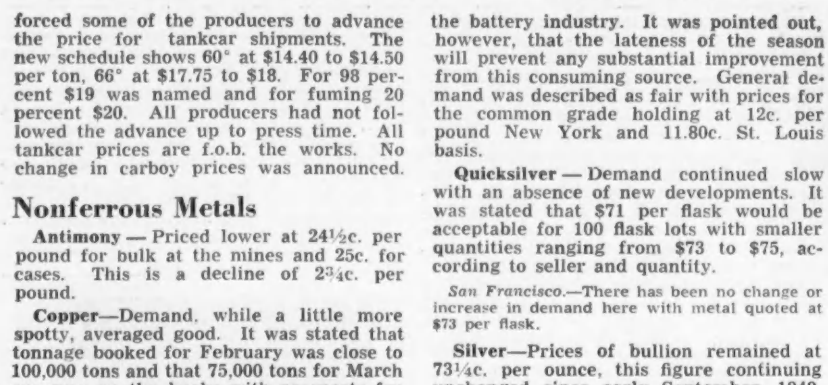
### Amer. Cyanamid Names Pennoyer Stamford Lab. Plant Manager

American Cyanamid Company, New York, has appointed William P. Pennoyer plant manager of its research laboratories at Stamford, Conn., to succeed Carl Haner, who is retiring from active service. William M. Bowes has been named to succeed Mr. Pennoyer as assistant plant manager, a post the latter has held since 1945.

### Mallinckrodt Moves in Cleveland

Mallinckrodt Chemical Works, St. Louis, Mo., has moved its Cleveland offices to 1135 Guildhall building, Cleveland 15, Ohio. In reporting this move in OPD 2/13/50, the name of the building was inadvertently spelled "Guichall."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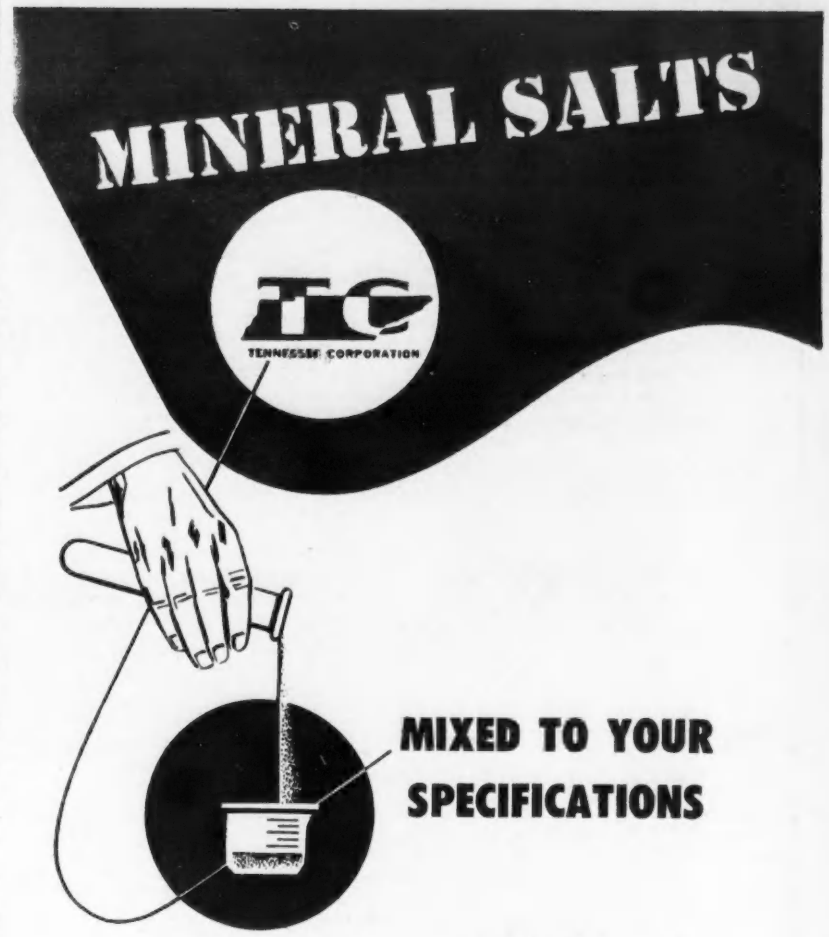


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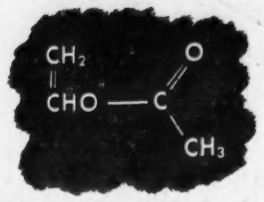


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**About the author . . .**

Dr. de Ong brings to this book a vast knowledge of entomology and the insecticide industry born of 33 years of close association with laboratory and industrial research development. He was in charge of entomology at University Farm, Davis, California, where he taught research and extension work in insect control and insecticides. Then for seven years, he was director of the Insecticide Laboratory of the University of California at Berkeley.

For the past twenty years, during ten of which he acted as Secretary-Treasurer to the Pacific Insecticide Institute, his consulting work for many of the largest companies in the country has kept him in close touch with major problems, research and new developments, and has earned him an outstanding reputation. In addition to his many technical papers and bulletins, his long association with growers, manufacturers and officials, and his establishment of the industry advisory committees among manufacturers throughout the United States for the O.P.A., Dr. de Ong has written many amendments to the laws pertaining to insecticides in the western states.

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## Alcoa Appoints Mitchell, Peterson to Export Posts

The Aluminum Company of America, Pittsburgh, has appointed John M. Mitchell manager of its export division and G. B. D. Peterson head of the division's New York office. Mr. Mitchell joined the Alcoa organization in 1929 and has served in various capacities, the most recent in charge of sales in Mexico. As manager of the export division he will be responsible for the development of foreign markets, covering all territory outside the continental United States. Mr. Peterson joined the company in 1928 and was serving as sales representative in York, Pa., prior to his current assignment.

## Sulphur Production Down Slightly in 1949

The domestic sulphur industry produced 4,869,210 long tons of native sulphur during the 1949 year, a slight decrease from the 4,978,912 tons produced in 1948, according to the Bureau of Mines. Shipments of native sulphur during 1949 totaled 4,789,311 tons, compared with 4,978,912 tons in 1948, and apparent sales amounted to 4,870,723 tons in 1949, as against 5,015,230 tons in the previous year.

## Phila. ASTM Plans Air Pollution Session Mar. 8

The Philadelphia district of the American Society for Testing Materialas will hold a session at the Franklin Institute on March 8. The featured speaker will be Louis McCabe, chief of the office of air and stream pollution, Bureau of Mines, who will deliver an address entitled "Atmospheric Pollution."

## *AIChE Studies Methods*

*—Continued from page 7*

more, their results indicated that in plants of fifty tons per day and larger, a 20,000 ampere cell could be more economical than a 10,000 ampere cell.

The utilization of metal amalgams in the manufacture of various chemicals was discussed by Dr. R. B. MacMullin, Niagara Falls consulting engineer. He reported on the new processes for the production of free metals, such as sodium, potassium, zinc, lead and lithium.

Dr. MacMullin stated that caustic soda is produced by decomposition of alkali amalgams with free water and metal alcoholates by decomposition of the amalgams with a suitable water-free alcohol. Various metallic salts, he said, are produced by direct union of the metal dissolved in the amalgams with other metals and acid-like compounds to produce various chemicals.

**Process for Refining Lye**

A new proces. for refining lye was described by another consultant, Walter L. Badger. A common method of making solid lye is by drying a 50 percent solution with the aid of steam heat at moderate temperatures but the Badger process consists of evaporating the 50 percent solution to near-dryness at a temperature of about 700 degrees F, using Dowtherm vapor to supply heat.

Mr. Badger said the principal problems met were corrosion of equipment and contamination of the lye product. By giving the 50 percent solution a chemical treatment to remove impurities and then evaporating in equipment made of nickel, he declared, it is possible to make a product of high purity without excessive corrosion of equipment. It was added that feasibility of the process for large-scale production has been demonstrated in a small plant producing continuously at the rate of sixty tons per day.

Robert M. Crawford, Buffalo, N. Y., consulting engineer, described the application of the old Deacon process to new methods for producing chlorinated benzene. The chlorinated benzene is later converted to phenol, he declared.

Normally, when chlorine is added to organic chemicals like benzene, hydrochloric acid is formed as a byproduct and half the chlorine is lost. By use of the old Deacon process, the byproduct acid can be converted back to chlorine with the use of air. In the process described by Mr. Crawford, these reactions are now carried out in a single step by passing chlorine, air and benzene through tubes containing newly developed catalysts, which permit operations at temperatures below 500 degrees F.

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Mr. Wormser would be pleased to contact first-class producers and exporters of SOLVENTS, COAL TAR PRODUCTS, etc. Furthermore, the representation for Switzerland of a capable PARAFFIN WAX REFINERY is desirable. Interested parties are requested to write or to telephone between 9 am. and 12 noon.

## *Solvay Executive Vice-Pres.*

Harold F. Merritt has been appointed executive vice-president responsible for the direction of all activities of the Solvay Sales Division, Allied Chemical Dye Corporation (OPD, 2/27/50).

## *Austria to Purchase*

—*Continued from page 3*

end of May, 1950. Final delivery date not later than the end of July, 1950.

No. 31-380-00-6244. Binding offer, valid until March 31, to be submitted not later than March 15 at noon (Vienna time). Final contracting date not later than the end of May, 1950. Final delivery date not later than the end of August, 1950.

No. 31-390-00-6225. Binding offer, valid until March 31, to be submitted not later than March 15 at noon (Vienna time). Final contracting date not later than the end of May, 1950. Final delivery date not later than the end of August, 1950.

Commodities included under the various authorizations are as follows:—

**Authorization No. 31-390-00-6225**

Carbon black, $67,000. Special qualities for printing color industry, $8,000; paper industry, $3,000; cable industry, $4,000, and rubber industry, $51,900.

Rubber chemicals, $78,000. Includes $72,000 for vulcanization accelerator, protective coating and vulcanization dyes for the rubber industry, and $6,000 for the same products for the cable industry.

Coaltar dyes, $300,000. Includes $180,000 for the textile industry; $14,000 for textile crafts; $14,000 for the clothing industry; $21,000 for the paper industry; $1,000 for the leather industry; $6,000 for the fur industry; $6,000 for the lacquer industry; $6,000 for the printing dyes industry; $5,400 for the earthen and chemical dye industry, and $3,600 for office articles and miscellaneous.

Phthalic anhydride, $10,000.

Tricresylphosphate, water clear, 100 hazen, $3,600.

Dibutylphthalate, water clear, $4,300.

Dimethylglycolphthalate, $400.

Colored chips, corresponding to NC colors, various colors, blue, light and dark red, dark green, $2,050.

Cobalt naphthenate, 10 percent Co content, $850.

Lead naphthenate, 30 percent Pb content, $50.

Synthetic plastics for lacquer, $29,750. Includes alkyd synthetics, air and furnace drying and nondrying, corresponding to Backasoles 7, 24, 31, 34; phenol synthetics, corresponding to types Superbeckacite 1001, 2000, 3011, and Beckacite 1101; maleic synthetics, corresponding to types 1110 and 111, and urea synthetics, corresponding to "Backamine" 169.

**Authorization No. 31-650-00-6217**

Molybdenum concentrate, $10,000. Roasted, containing minimum 60 percent molybdenum; 2 percent P; free of Pb, As, Cu.

**Authorization No. 31-370-00-6223**

Laboratory chemicals, $50,000.

**Authorization No. 31-390-00-6225**

Laboratory chemicals, $20,000.

**Authorization No. 31-640-00-6215**

Asbestos fiber, ozokerite or microcrystalline wax, $30,000.

**Authorization No. 31-640-03-6216 (Canada)**

Asbestos fiber, asbestos waste and crude asbestos, $100,000.

**Authorization No. 31-2103-00-3219**

Botanical drugs, $20,000. Includes Ceylon cinnamon, cinchona bark, condurango bark, Tinnevelly senna, lobelia herb, kamala, sassafras, ipecac, Honduras sarsaparilla, senega, valerian, galanga, hydrasti, strophanthus seed, nux vomica, Cape aloe, Chinese root, kola, calisaya and bladderwrack.

Fishscale pearl essence, $3,000.

I. G. waxes, type E and type O, $4,000.

**Authorization No. 31-2103-00/94-3219**

Ivory nute Corozo, sort Manta Negra or Esmeralda, absolutely free of worms, first class peeled merchandise, $10,000.

Carnauba wax, fat gray N.C. No. 3, $23,000.

**Authorization No. 31-2106-00/94-3224**

Casein, 60 mesh, $15,000.

Casein, first class extra quality, unground, for April-May shipment, special heavy export bags, $25,000.

**Authorization No. 31-380-00-6224**

Cerium oxide, $100.

Treopax, $5,900.

Nickel oxide, 76.51 percent, gray-green, $340.

Antimony oxide, 98-100 percent, $1,000.

Zircon oxide, approximately 70 percent, $1,700.

**Authorization No. 31-390-00-6225**

Polystyrene protective coating to be applied with a spray gun, $58,000.

Titanium dioxide, oil dispersible, pure white, 99 percent, $7,500.

Titanox TG, $5,500.

Titanium dioxide, 99.9 percent rutile, pure white, nonchalking, $21,700.

Phenol, USP, crystal, melting point 40.41 degrees C., $50,000.

Titanium dioxide, 98/99 percent, nonchalking, water and oil dispersable, $1,000.

Further details as to specifications, bidding requirements and other data may be obtained by requesting the indicated small business circular from the Office of Small Business, Economic Cooperation Administration, Washington 25, D. C.

### Lead Azide Offered by U. S.

The Field Director of Ammunition Plants, Joliet, Ill., will receive sealed bids in singular until 2.00 p.m., March 8, on 6,000 pounds of lead azide, f.o.b. Joliet Arsenal. Purchaser is to supply ICC approved shipping containers.

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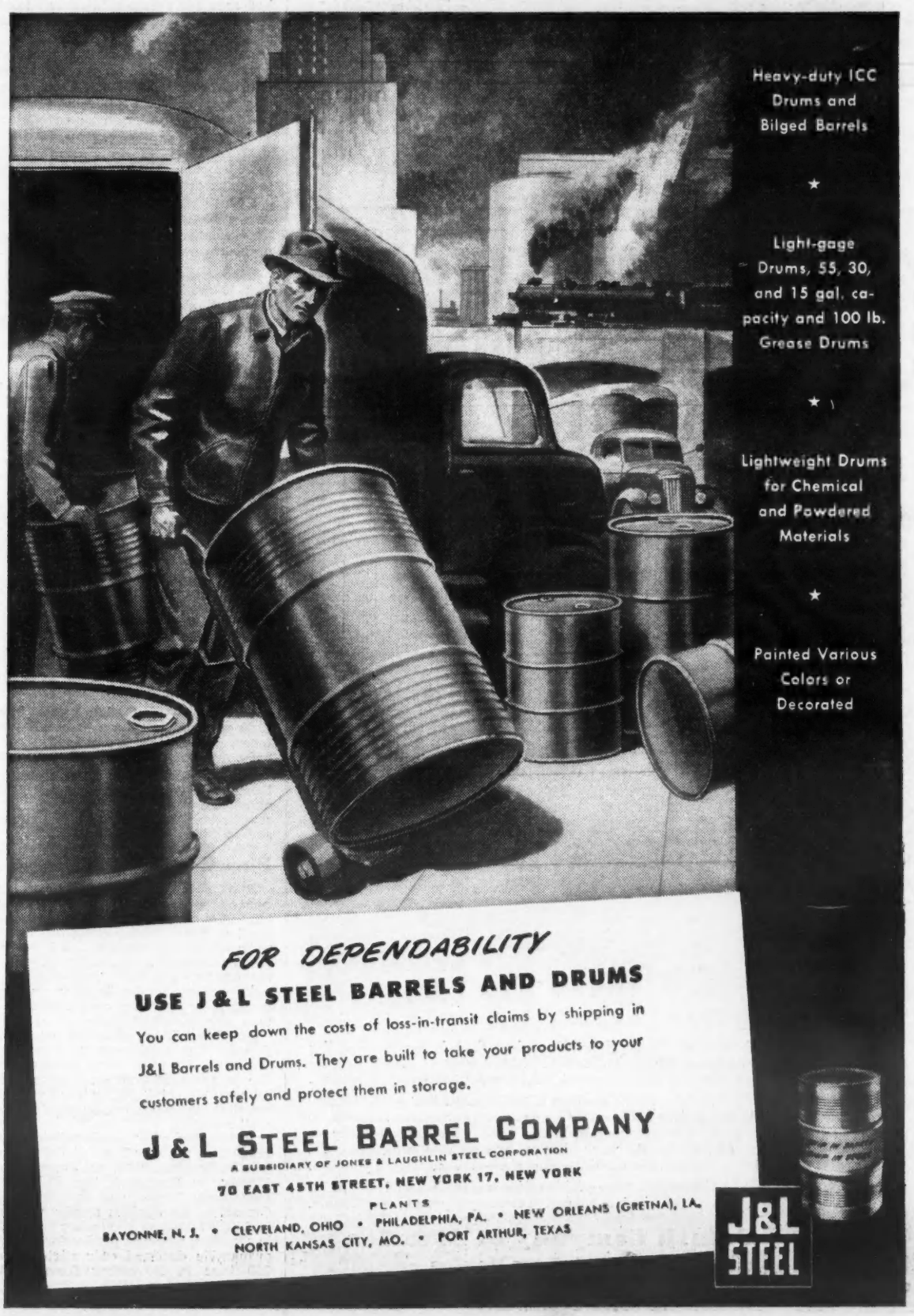
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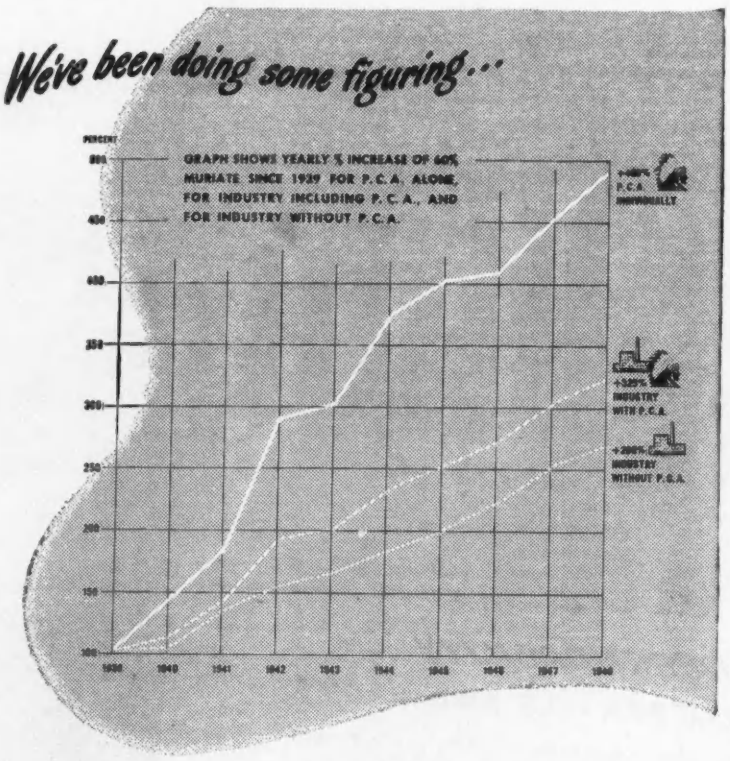
GRAPH SHOWS YEARLY % INCREASE OF 60% MURIATE SINCE 1939 FOR P.C.A. ALONE, FOR INDUSTRY INCLUDING P.C.A., AND FOR INDUSTRY WITHOUT P.C.A.
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+325% INDUSTRY WITH P.C.A.
+280% INDUSTRY WITHOUT P.C.A.

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# Agricultural Chemicals

Improved demand for stock-feed use was reflected in higher prices for dried blood and tankage last week. This feed inquiry was also felt in defluorinated phosphate rock where available stocks were appreciably reduced. There were no new developments in bone meal or other packing-house byproducts. Recent heavy importations of fish meal exerted some pressure on the market and Baltimore prices were lower. Fertilizer inquiry for castor pomace continued active with sales prohibited by the absence of offerings.

Activity at fertilizer mixing plants has increased with freer receipts of potash. Demand for coke-oven ammonium sulphate showed improvement with no shortage of stocks at present although production has been further cutback by the banking of additional furnaces at iron and steel plants on account of coal scarcity. Heavy export purchases of converters' ammonium sulphate have tightened the supply of that grade and the market has developed a firm position.

Increased output of potash in the Carlsbad area has resulted in freer shipments. It was stated that production is nearing capacity. Some of the producers have announced a cutback of 8 percent in their contract deliveries. Several cargoes of Russian muriate are expected to arrive this month. Superphosphate moved in better volume under an improved demand.

Production of nitrogeneous fertilizers in western Germany in November totaled 34,700 metric tons of nitrogen, according to Frankfort advices. October output was 33,700 metric tons. Production of phosphatic fertilizers was 25,000 metric tons in November, compared with 21,400 in the preceding month.

*Production figures appearing below, unless otherwise designated, are from the Chemical Division of the Tariff Commission. Exports and imports are from the Department of Commerce.*

## Nitrogenates

**Ammonium Sulphate**—Additional banking of steel mill furnaces has cutback production of coke-oven sulphate although it was stated there is still a lot of stock to be moved. Demand from mixers has increased and should show further improvement with larger shipments of potash coming through. Export inquiry was not unusually active for converters' sulphate. Stocks have been appreciably reduced by recent heavy purchases for shipment to Korea. General Service Administration awarded a contract for 42,600 tons last week to a producer who bid $36.49 per ton, f.o.b. works. A previous purchase of 40,000 tons was awarded to two producers, one-half going at $49.92 per ton, delivered in Korea, and the remainder at $38.65, f.o.b. works.

**Dried Blood**—Priced higher at $7.75 per unit of ammonia here and in Chicago, with the stock-feed trade increasing purchases at advancing prices.

**Fish Meal**—Menhaden priced lower at $160 per ton Baltimore area. Buying interest slow. Scrap nominally lower at $150. Imported fish meal for shipment

**Tankage**—Higher prices were established last week under an increased demand from the feed trade. Sales were reported at $7.75 per unit of ammonia here and in Chicago.

## Phosphates

**Phosphate Rock** — Domestic shipments held a fair seasonal average over the turn of the month with stocks adequate to meet demand readily except in low grade rock where the supply has been temporarily reduced by government purchases for export. No new large foreign sales were reported. An inquiry was in the market for Formosa and a sale of 5,000 tons was made to Israel.

**Superphosphate**—Gradual expansion in demand for shipments was noted with prospects favorable for a seasonal gain in the general movement. Current stocks have met demand readily but it was pointed out that conditions may change by the end of the month.

Production of superphosphate in Japan reached a postwar high of 114,688 metric tons in October, 1949, but dropped to 104,179 tons in November, the Ministry of International Trade and Industry reports. Output of ammonium sulphate decreased to 115,207 tons in November from 120,044 in October, whereas production of calcium cyanamide declined only slightly—to 32,090 tons in November from 32,867 in October.

## *Market Trends*

**Prices Advanced**

Dried blood, 50c. per unit of ammonia. Tankage, 50c. per unit of ammonia.

**Prices Reduced**

Fish meal, menhaden, $5 per ton. scrap, menhaden, $5 per ton.

**Comparative Price Indexes**

(100—August 1, 1914)

| Last week | Prev. week | Last month | Dec. 30, 1949 | Mar. 4, 1949 |
|---|---|---|---|---|
| 81.6 | 81.6 | 81.6 | 81.6 | 81.6 |

(*For Current Prices see Page 9*)

## Potashes

Production in the Carlsbad area made further gains last week and is now running close to capacity with a corresponding increase in shipments. Contract consumers have been notified by one of the producers that their shipments will be cutback 8 percent as a result of the shortage caused by the recent strike. It is expected that from 8 to 10 cargoes of Russian muriate will arrive this month. Most of this material was sold on the basis of 73c. per unit.

## Los Angeles Fertilizer Market

*Los Angeles.*—There has been a very slight increase in the local market tempo, most of it centering around inorganic nitrogen fertilizers. Movements of ammonia phosphate and ammonia sulphate have also shown some improvement while the other listings have remained normal. Prices have been steady for most materials, blood meal and fertilizer tankage having jumped up 50c. per unit of ammonia according to latest quotations. Supplies of all fertilizers are excellent at present.

Ruling prices were:—Ammonia nitrate, $69.94 per ton, f.o.b. Los Angeles. Canadian material same. Ammonia phosphate, $65.15 per ton for 16/20 grade, f.o.b. Los Angeles; 11/48 grade quoted $89.65 per ton, f.o.b. Los Angeles. Canadian materials same. Ammonia sulphate, $49 per ton bagged, f.o.b. Los Angeles. Canadian material same in bags. $2.50 less for bulk. Blood meal, $6 per unit of ammonia at source. Bone meal, $68.50, $70 per ton for imported, steamed, 1/30 meal, f.o.b. Los Angeles. Fish meal, 159.25, $162.50 per ton for 65 percent sardine, f.o.b. Los Angeles. $150-$153 per ton for 60 percent tuna, f.o.b. Los Angeles. Nitrate of soda, $53 per ton in 100-pound bags, f.o.b. Los Angeles Harbor. $48 per ton for bulk. Potash muriate, 45½c. per unit, bulk, f.o.b. Trona basis. Potash sulphate, 95 to 98 percent $K_2SO_4$, 79c. per unit, f.o.b. Trona. Superphosphate, $21.20 per ton bulk, f.o.b. Los Angeles area. $2.50 additional for bags. Triple, $68.50 to $71.50 per ton, 42 percent a.p.a., f.o.b. Los Angeles. Tankage, wet rendered, fertilizer grade, $5.25-$5.50 per unit of ammonia at production plant.

## Pesticides

With infestations of three major insect pests expected to exceed the intensity of 1949 outbreaks, the agricultural industry urges farmers and growers to review their control programs, and place at least a partial order for their anticipated needs. The boll weevil, European corn borer, and grasshopper are the three major insects expected in greater numbers by entomologists of the Bureau of Antomology and Plant Quarantine, Department of Agriculture. Reasons for the anticipated heavy outbreaks are the mild winter over much of the country so far this year, and the heavy population of the insects last year.

Many progressive growers have come to look upon the practice of early ordering as insurance, according to the National Agricultural Chemicals Association. Industry has geared its production to meet the requirements for this year's control program, and is making available to farmers and growers the widest range of chemicals in history. Supplies are expected to be ample to meet requirements; however, to insure adequate quantities of a given chemical, at least a partial order should be made in advance of the insect season. Considerable attention is being given the varying conditions under which insects occur and must be controlled. This is one reason for the wide range of products available today, and a contributing factor to the vast progress made in insect control.

**Benzene Hexachloride**—December production amounted to 1,820,066 pounds, compared with 1,880,162 in November and 1,074,920 pounds in December, 1948. The gamma isomer content of BHC in December was 275,782 pounds, compared with 288,790 in the preceding month and 163,564 pounds in December, 1948.

**DDT**—Supply position continued tight with market steady. Output in December was 2,783,900 pounds, compared with 1,818,939 in the preceding month and 3,109,039 pounds in December, 1948. November exports totaled 1,201,000 pounds, a decrease of 87,000 pounds from October.

*For Late Market Developments, See Page 4*

Principal countries of destination in November were Brazil, 403,000 pounds; Egypt, 221,000; Canada, 154,000, and Colombia, 107,000 pounds.

**Lead Arsenate**—Export shipments in November were larger. The total was 112,000 pounds, including 55,000 pounds to Cuba and 44,000 to Brazil. Exports in October amounted to 41,000 pounds.

**Rotenone**—Importations during November totaled 936,000 pounds, practically all from Peru, an increase of 84 percent over October receipts.

## Sulphur

Mine shipments have continued heavy with the chemical insecticide and fertilizer industries included among top buyers. There has also been an active demand for use in the pulp and paper mills and also in the paint factories. Stocks have been maintained at a level to meet requirements promptly.

Spain's exports of pyrites to the United States in 1949 were less than 10 percent by value of those in 1948. Totals were $44,000 and $555,000, respectively.

### Summers Honors Veteran Workers

N. K. Totman, treasurer of the Summers Fertilizer Company, Baltimore, Md., and Miss Doris Zaiser, secretary, were recently honored at a dinner in the Southern hotel, Baltimore, to commemorate their twenty-fifth anniversaries with the company. Mr. Totman joined the company in 1925 as a factory shipping clerk and Miss Zaiser joined in the same year as a clerk in the billing department.

### Barada & Page Plans Plant

Barada & Page, Inc., Kansas City, Mo., has contracted for the construction of a $100,000 distribution plant on a site in St. Louis purchased by the company two years ago. The company is a distributor of heavy and agricultural chemicals. O. A. Collings is branch manager at St. Louis.

### Dow Transfers Dietzel

The Dow Chemical Company, Midland, Mich., has assigned A. L. Dietzel to represent its agricultural chemicals department in Missouri, Oklahoma, Kansas, Colorado, and New Mexico. Mr. Dietzel joined the company as a salesman in its St. Louis branch office in 1941.

### U. S. Potash Moves Offices

The United States Potash Company has moved its executive offices to new and larger quarters at room 3407, 30 Rockefeller plaza, New York. The telephone number is Columbus 5-5813. The company previously occupied different quarters in the same building.

## *Trade Briefs*

**Arkell & Smiths** has elected Sheldon Y. Carnes a vice-president and member of the board of directors.

**American Smelting & Refining** Company has elected John C. Traphagen to its board of directors, to fill the vacancy caused by the recent death of J. Louis van Zelm.


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| Xylenols | "ELASTEX" 10-P Plasticizer | CUMAR* Paracoumarone-Indene Resin |
| Pickling Inhibitors | "ELASTEX" 50-B Plasticizer | Carbonex* Rubber Compounding Hydrocarbon |
| Benzol | "ELASTEX" 28-P Plasticizer | Bardol* Rubber Compounding Oil |
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# Coaltar Chemicals

Drastic reductions in coke oven operations, and plant shutdowns in several sections of the coaltar chemical industry, resulted in the market developing several tighter spots last week. The closing down of many coke ovens had the effect of cutting off a considerable quantity of crude tar acid oils from which such materials as phenols, cresylic compounds, and naphthalene are derived.

Some chemical plants which depend heavily on benzol as a raw material were unable to obtain sufficient benzol, regardless of high freight costs for long distance hauling, to keep their plants running. Accordingly, some plants were being closed for lack of sufficient raw materials, and still others were being closed because of lack of fuel such as coal for coke and the manufacture of water gas.

It was reported in some quarters that consumers were not yet ordering heavy quantities of hard-to-get available materials beyond their needs, as frequently happened in the steel strike. And this was felt to be a good thing for the industry. One of the reasons for the lack of a too great rush to stockpile material was the fact that many consuming industries were themselves hit.

In many sections of the industry, transportation problems were becoming serious, not only because of fewer freight trains, but also because of the difficulty in getting empty tankcars back for reuse. Prices in this market were unchanged except for a 1½ cent per gallon reduction in the price of crystal free refined creosote. One maker of refined 2 degree pyridin advanced prices 5 cents per pound restoring the former schedules of several week ago. Phenylmethylpyrazolone was reduced 15 cents per pound by one producer.

The American Iron and Steel Institute reported the operating rate for the week ended March 4 as scheduled at 73.7 percent of capacity. This was equivalent to 1,404,900 tons of ingots and castings, compared with 1,692,800 tons the previous week, and 1,852,700 tons one year ago.

## Basic Products

**Benzol** — Drastic reduction in output was reported last week as a result of the closing down of a large number of coke ovens. This resulted in a greater tightening of available supplies in the immediate market, but was expected to exert a still greater scarcity effect next week. So critical had the supply situation become that some plants manufacturing such important items as phenol and styrene as well as other benzol derivatives had to close down, and others curtailed production schedules significantly. Sufficient benzol was no longer to be had regardless of how much extra freight consumers were willing to pay to ship material over long distances.

Moreover, the transportation picture became more confused with the recent dropping of several scheduled freight runs as a result of the coal shortage. Added to this was the problem of getting back empty tankcars in which material had been shipped, making a scarcity of available tankcars at the raw material source.

**Coaltar**—This market was steady pricewise, and in the resale market supplies were not too scarce, but there existed a potential shortage as a result of the coal strike because coking operations were being heavily reduced. Prices on the resale basis continued to list tankcars of crude coaltar at 13½c. per gallon and refined coaltar at 14½c. per gallon. These prices were ex warehouse. In carlot drum quantities the price per gallon was 23½c. on crude and 24½c. on refined. In less than carlot drum quantities, crude tar was quoted at 25c. and refined at 26c.

**Creosote** — There was no shortage of supplies in the immediate market, but there did exist a potential shortage in the currently increasing number of oven shutdowns being effected throughout the steel industry. Imported creosote was taking a lot of the pressure off the presently curtailed production.

Prices were unchanged on crude creosote meeting the No. 1 grade specifications of the Wood Preservers Association. But refined crystal free material in tankcars was quoted on a f.o.b. works basis at 23½c. to 25c. per gallon.

**Cresol** — The various grades were all regarded as in tight supply as a result of the coal shortage, but the supply position had not as yet become critical in that there is a lag of some three to four weeks from the time coke oven production drops until the full impact is felt by tar distillers output.

There was reported less apparent consumer alarm as manifested by the lack of ordering materials well ahead of needs, during this strike than was noted at last Fall's steel strike. This was felt to be due in part to the fact that the coal strike was hampering consumer production and transportation as well as the supplies of materials more closely related to coal chemical basic production.

The production of meta-para cresol in December was reported by the Tariff Commission as 668,731 pounds, compared to November's production of 568,433 pounds. Preliminary figures on the 1949 output of meta-para cresol stood at 6,770,933 pounds. There was not available an estimated total production figure for 1949 on ortho-meta-para cresol. December production, however, of the ortho-meta-para grade was reported as 800,183 pounds, compared with November at 603,336 pounds.

**Cresylic Acid**—The preliminary production figure on all grades of refined cresylic acids in 1949 stood at 24,823,581 pounds. The Tariff Commission reported December production at 2,828,221 pounds, compared with the November output of 1,882,676 pounds.

Supplies of acids of domestic production were regarded as potentially scarce, in view of the coal strike, and the real significant effect of the strike on supplies would more likely be felt in late March and early April, because of the lag between coke oven tar acid output and the production of refined cresylic acid by tar distillers.

However, there was no marked tendency on the part of buyers to order in abnormal quantities beyond their needs. Meanwhile, imported acid was readily available, and this tended to take some of the pressure off the domestic acid market.

**Naphthalene**—Any shortage of naphthalene was more potential than actual last week. Domestic production was threatened in the immediate future with serious curtailment because of the widespread closing down of coke ovens and hence curtailment of crude tar acid production. Imports were continuing large, however, and served to take much of the pressure off domestic production. However, the industry cannot get along on imported supplies for long, should the domestic output meet with drastic reductions. Prices were unchanged and it was felt likely that present price patterns would hold for the coming weeks.

**Phenol** — The price pattern on the synthetic type was still characterized by a ½c. per pound spread, since most producers had not as yet moved to adjust prices upward. Of more immediate concern to manufacturers of synthetic phenol was the critical benzol shortage as the result of widespread curtailment of coke oven operations because of the coal strike. More steel mills were running out of coal, ovens were being closed down, and benzol output dropped sharply. This caused some plants making such items as phenol and styrene as well as other benzol derivatives to close down for lack of raw material.

As if this were not enough, producers were harassed by transportation problems

### *Market Trends*

**Prices Advanced**

None

**Prices Reduced**

Creosote, crystal free, 1½c. per gal.
Phenylmethylpyrazolone, 15c. per lb.

**Comparative Price Indexes**

(100=August 1, 1914)

| Last week | Prev. week | Last month | Dec. 30, 1949 | Mar. 4, 1949 |
|---|---|---|---|---|
| 107.3 | 107.3 | 107.3 | 110.1 | 138.0 |

*(For Current Prices see Page 9)*

### *Coke By-Products*

Estimates of by-product cokeoven operations in the week ended February 18 indicate the following output of by-products from that source:—

| | | |
|---|---|---|
| Ammonia liquid $NH_3$ | lbs. | 955,396 |
| Ammonia sulphate | lbs. | 24,739,752 |
| Benzol | gals. | 3,117,611 |
| Coaltar | gals. | 11,565,331 |
| Creosote oil | gals. | 643,635 |
| Naphthalene, crude | lbs. | 1,527,635 |
| Phenol | lbs. | 181,022 |
| Toluol | gals. | 623,522 |
| Xylol | gals. | 140,795 |

*For Late Market Developments. See Page 4*

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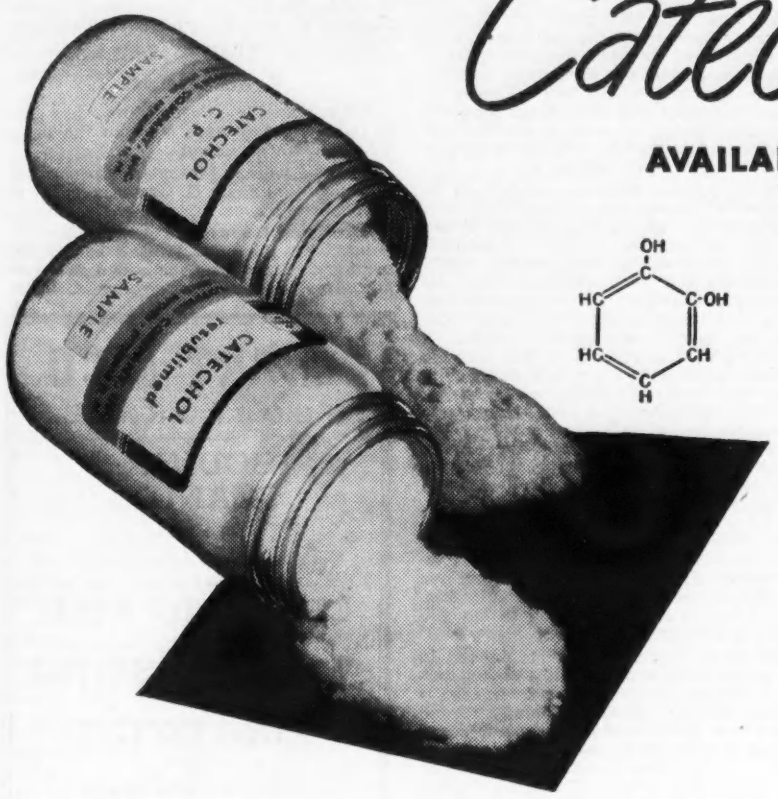





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stemming from the greatly curtailed train schedules and in addition there was the problem of getting empty tankcars back. Some manufacturers reported that there was a tendency in transportation circles to be more willing to haul full tankcars away, than empty ones back, and the lack of available empty tankcars was just one more headache to industry as a result of the coal strike.

The preliminary figure on the production of all types of natural and synthetic phenols in 1949 stood at 223,595,418 pounds. The Tariff Commission reported December production at 22,570,456 pounds, compared with the November output of 20,307,173 pounds.

**Pyridin**—Refined material was scarce, and continued to sell under a price spread of 5c. per pound. Other grades were amply available. However, one maker who had dropped prices from 80c. to 75c., advanced prices 5c. per pound last week restoring former schedules.

**Toluol**—There was little to be said about the tight market other than that the heavy reduction in coke oven operations spreading throughout the industry, as a direct result of the coal strike, was seriously reducing the already critically scarce supply. Prices were unchanged. Demand was heavy. Transportation was difficult as a consequence of fewer freight trains and the difficulty in getting empty tankcars returned.

**Xylol**—The closing down of coke oven operations on a wide scale cut deeply into the already critical supply position of coaltar source xylol. Demand was far in excess of supplies, and transportation difficulties plagued producers.

## Dyes

The dyestuff industry was reported doing a moderately good volume of business, with prices holding firmly to former schedules. As yet there was no dearth of naphthalene derived chemical intermediates, but if there was any long delay or serious cutback in domestic naphthalene production, shortages on some items were felt likely to develop despite the heavy naphthalene imports. Benzol derived intermediates were already critically short as the result of the coal strike.

The Tariff Commission reported production of 581 Direct Black EW at 633,713 pounds in December, and 570,684 pounds in November. Meanwhile the output for December of 302 Naphthol AS was reported at 6,455,925 pounds, compared with the November production of 6,468,696 pounds.

## Intermediates

**Anilin**—Supplies grew progressively shorter last week in the wake of the continuing coal strike. Benzol was critically short and becoming more drastically so as coke ovens closed down in increasing numbers. Prices were unchanged, and no price adjustment was considered likely to develop immediately. Manufacturing costs were temporarily up in many instances because of the necessity of paying heavy freight charges on shipments hauled over long distances. However, since these additional costs were considered temporary during the strike and immediately thereafter, manufacturers of anilin were inclined to absorb the costs.

December production was reported as 7,024,439 pounds, compared with a November output of 7,283,657 pounds. The preliminary total production figure for 1949 on anilin was 72,179,796 pounds.

**Monochlorobenzene**—Seriously curtailed output as a result of the benzol shortage was reported in the market. Coal shortages had shut down coke oven operations drastically last week shutting off considerable benzol production. Prices were unchanged.

Some plants using this chemical as an intermediate in the manufacture of various large volume benzol derivatives had been forced to close down as a result of the coal strike. December production of monochlorobenzene was reported as 23,396,319 pounds, compared with the November output of 24,197,029 pounds. Preliminary production figures for 1949 indicated that the year's production stood at around 250,581,930 pounds.

**Phthalic Anhydride** — Long supplies have characterized the market over recent weeks, and there was still an abundance of phthalic available. However, this easy supply position could well change in the direction of scarcity in the immediate future as a result of some plants having to curtail production and others to cease production temporarily because of a lack of fuel such as coal for coke and manufactured water gas. Moreover, the curtailed output of domestic naphthalene as a result of lower crude tar acid production resulting from closing

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down coke ovens, would soon have an adverse effect on supplies. This was felt to likely be so, despite significant imports of crude naphthalene.

## Explosives Transportation Rules Amended by ICC

The Interstate Commerce Commission last week announced further changes in the regulations covering transportation of explosives and other dangerous articles to give approval to the use of so-called "portable tanks" for movement of some products. The commission also added the following items to the list of explosives and other dangerous articles:—

Dimethylamine, aqueous solution, an inflamable liquid requiring a red label with shipments by rail express limited to ten gallons per container; monomethylamine, aqueous solution, an inflammable liquid requiring a red label with shipments by rail express limited to ten gallons per container; trimethylamine, aqueous solution, an inflammable liquid requiring a red label with shipments by rail express limited to ten gallons per container; chlorate and borate mixtures, an oxidizing material requiring a yellow label with shipments by rail express limited to 100 pounds per container; methyl mercaptan, an inflammable gas requiring a red label with shipments by rail express limited to 300 pounds per container; sodium amide, an inflammable solid requiring a yellow label with shipments limited to twenty-five pounds per container; and hexamethylene diamine solution, a corrosive liquid requiring a white label with shipments by rail express limited to ten gallons per container.

The term "portable tank" is defined in the regulations as any tank designed primarily to be temporarily attached to a motor vehicle, other vehicle, railroad car other than tankcar, or vessel, and equipped with skids, mountings or accessories to facilitate handling of the tank by mechanical means. The term "portable tank" is not construed to include any cargo tank, any tankcar tank, or any tank of the ICC 106A type.

The regulations state that every "portable tank" container used for the transportation of dangerous articles shall fulfill the requirements of the specification and regulation for the transportation of the particular commodity.

## Wormser Visiting New York

Paul Wormser, of Paul Wormser & Co., Zurich, Switzerland, is currently visiting this country and would like to contact producers and exporters of coaltar products, solvents and other materials. Mr. Wormser is also seeking the representation for Switzerland of a paraffin wax refinery. He may be reached at the Pierre hotel, New York.

## *Trade Briefs*

**Johns-Manville** Corporation has acquired a new asbestos mine in the province of Ontario, Canada.

**Owens-Corning** Fiberglas Corporation has appointed Keith O. Grove manager of its export division.

**Aluminum Company** of America has appointed M. Russell Kambach advertising manager. He will be succeeded as assistant advertising manager by Jay M. Sharp.

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# Textile and Leather Chemicals

Consuming inquiry for textile and leather chemicals lacked improvement last week as buyers continued to limit demand to actual requirements. Prices were without change and generally steady with the exception of potato starch which was unsettled due to the liberal offerings of government owned starch, for domestic and export delivery.

CCC added potato starch to the list of surplus commodities for sale acquired under the support price program, but business was reported by mills at the same price asked by the government.

A good demand was noted for corn dextrin and starch. Production of corn derivatives has been partially curtailed by the coal strike, though supplies were still adequate to cover current requirements. Dextrin output was sold ahead and deliveries were at least two weeks behind schedule. Quotations for dextrin and starch were unchanged and the price guarantee against advance was extended to March 15. Limited trading was reported for tapioca flour. Lower grades commanded more interest than the higher. Sago flour was in tight supply on the spot. Prices were unchanged, but firm for supplies here and prompt shipment from primary sources.

Egg albumen remained steady with trading more active both for spot and forward delivery. Contracts for sizable quantities were booked for requirements in some cases to the end of the year. This stabilized the market and prices have leveled off.

Cattlehide leather production in December increased, totaling 1,999,000 hides, compared with 1,868,000 hides in November was reported by the Tanners Council. Calf and whole kip skins output was indicated at 937,000 against 861,000; goat and kid skins, 2,787,000 against 2,747,000 and sheep and lamb skins, 2,134,000 against 2,691,000.

Consumption of raw wool in woolen spinning and worsted combing was seven percent lower in November, averaging 10,800,000 pounds per week, according to the Census Bureau. A sharp drop in apparel class consumption was accompanied by an increase of eight percent in carpet class. Wool consumption during the first eleven months of 1949 amounted to 452,800,000 pounds, 29 percent below the corresponding 1948 period.

## Market Trends

**Prices Advanced**

None

**Prices Reduced**

Potato starch, ¼c. per lb.

**Comparative Price Indexes**

(100—August 1, 1914)

| Last week | Prev. week | Last month | Dec. 30, 1949 | Mar. 4, 1949 |
|---|---|---|---|---|
| 246.4 | 246.4 | 257.1 | 286.0 | 351.0 |

(*For Current Prices see Page 9*)

## Chemicals

**Acetic Anhydride** — Consumers continued to limit demand for prompt needs. Market was without change and steady.

**Bichromates** — Demand was reported spotty, chiefly for prompt delivery. Large consumers also have reduced inventories and in some cases held less than 30 days supply. Prices were unchanged and steady.

**Sodium Acetate** — Buying interest was restricted to actual requirements. Supplies were adequate. Production kept pace with consumption.

**Soda Hydrosulphite** — Trading was restricted to actual needs. Prices were maintained at current levels.

**Sulphonated Oils** — Business was light and spotty. Tone of the market was steady, reflecting the firmness in basic materials.

## Sizing Materials

**Albumin Blood** — Consuming inquiry was quiet. Demand was confined to small lots for immediate delivery. Prices of albumin and dried soluble blood were maintained at former levels.

**Corn Dextrin** — Active demand kept production sold up and the market steady. All grades were unchanged. Price guarantee against advance was extended to March 15.

**Corn Starch**—Good consuming demand was reported for prompt delivery. Quotations were unchanged and the guarantee against advance was extended to March 15. Visible corn supply increased 438,000 bushels to 44,335,000 bushels for the week ended February 25, compared with 40,924,000 bushels for the corresponding week last year, according to the Chicago Board of Trade. Production and Marketing Administration announced last week that farmers have placed 205,606,011 bushels of corn of the 1949 crop under the Commodity Credit Corporation price support from July 1949 through January 1950.

**Egg Albumen** — Improved trading was noted last week for spot and forward delivery. This stiffened the market and current prices were firmer, though unchanged. Interest in replacements was more active, with contracts booked for forward delivery and in some instances to the end of the season. Edible flake was held at $1.30 to $1.40 per pound, depending upon quantity. Technical remained steady and in good inquiry. Spot stocks were maintained at 78c. to 85c. per pound, as to quantity. Department of Agriculture reported purchases of 1,400,000 pounds of dried eggs last week at the support price of 96c. per pound. Officials stated that offerings were smaller and that freezer operators are actively competing for eggs in the midwest. Dried egg purchases during January and February totaled about 11,000,000 pounds, considerably more than for the same time last year. Production was about 12 percent higher than in 1949 due to good weather conditions.

**Egg Yolk**—While business was spotty, the market remained strong, reflecting the firmness of albumen. Stocks were maintained at $1.10 to $1.15 per pound, according to quantity. Trading was reported chiefly for prompt delivery. Tanners egg yolk was in limited supply and prices ranged from 6½c. to 7½c. per pound, according grade and quantity.

**Potato Starch**—Consumers continued to operate in a hand to mouth manner, limiting demand to actual requirements. Offerings were more liberal and carlot business was reported at concessions. Producers quoted 4¾c. per pound, carlots, f.o.b. Maine and 5c. Idaho. Stocks on the spot were in fair request for immediate needs, despite light inventories. Maine starch was unchanged at 6½c. to 6¾c. per pound, exwarehouse and Idaho at 7c., same basis. CCC added potato starch last week to the list of commodities for sale for domestic and export delivery from its surplus holdings. CCC offered 420,000 pounds of pearl type potato starch and 9,650,000 pounds of powdered at $4.50 per 100 pounds, f.o.b. Maine shipping points and at $5.10 f.a.s. vessel, Boston.

**Rice Starch**—Light demand was noted for stocks on the spot, which were held at 12½c. per pound.

**Sago Flour** — Stocks are tight on the spot and early arrival. Demand was active and market firmer. Prompt shipment was well held at 5c. per pound, exdock and 5.35c., afloat. Supplies were quoted at 5½c. to 5¾c. per pound, exwarehouse, as to quantity.

**Tapioca Flour**—Trading for spot and forward delivery continued slow. Prices were unchanged and fairly steady. Brazilian high grade was quoted at 8c. to 8½c. per pound, depending upon quantity; mediums, 7½c. to 7¾c. and low at 7c. Siamese grades were firm, ranging from 4c. to 6c. per pound, according to quality and quantity.

## Tanning Materials

**Chestnut Extract** — Consuming demand lacked snap, and in most instances was confined to immediate requirements. Quotations were without change.

**Cutch** — Moderate volume of business was reported for prompt shipment. Market was unchanged and steady at 7c. per pound, exdock, duty extra. Arrivals were reported at 1,000 bags at New York last week.

**Divi Divi**—An active inquiry for shipment and scarcity of offerings from primary sources, kept this market in a firm position. Shipments of 42 percent tannin were maintained at $68 per ton, exdock. Demand for foreign account was said to have taken the bulk of the production.

**Mangrove Bark**—Most of the recent demand has been confined to South American bark due to scarcity of available supplies at African sources. South American bark was steady at $62 per ton, exdock and an occasional offer of African bark at $78 exdock attracted little attention as the price was considered too high. Imports at New York from South America totaled 5,465 bags and 815 seroons from Puerto Plata.

**Myrobalans**—Buying interest continued slow, though prices for shipment were unchanged and steady. Recent arrivals totaled 4,300 bags at New York were delivered against former contracts.

**Quebracho Extract**—Arrivals of extract recently have been heavy against former contracts. Last week imports totaled 22,270 bags at New York; 14,650 bags at Boston; 2,100 bags at Baltimore and 3,300 bags at Norfolk. Interest in replacements was moderate, chiefly for immediate shipment. Quotations were unchanged and steady.

**Valonia**—There was little doing in this market. Consuming inquiry was lacking and quotations, while unchanged were more or less nominal. Arrivals of cups totaled 3,030 bags at New York on previous orders. Lower duty on valonia extract from Greece becomes effective March 9, when it will be reduced to 3¾ from 7½ percent.

**Wattle**—This market remained steady. Buying interest was fairly active. Offers for shipment of bark and extract were maintained at former quotations.

### Carbide & Carbon Adds To Synthetic Fibers Staff

The synthetic fibers department of the Carbide & Carbon Chemicals Division, Union Carbide & Carbon Corporation, New York, has appointed Robert W. Gaines technical representative and has added Arthur L. Snyder to its staff. Mr. Gaines was formerly assistant department head of yarn development in the company's plant in South Charleston, W. Va.

*For Late Market Developments, See Page 4*


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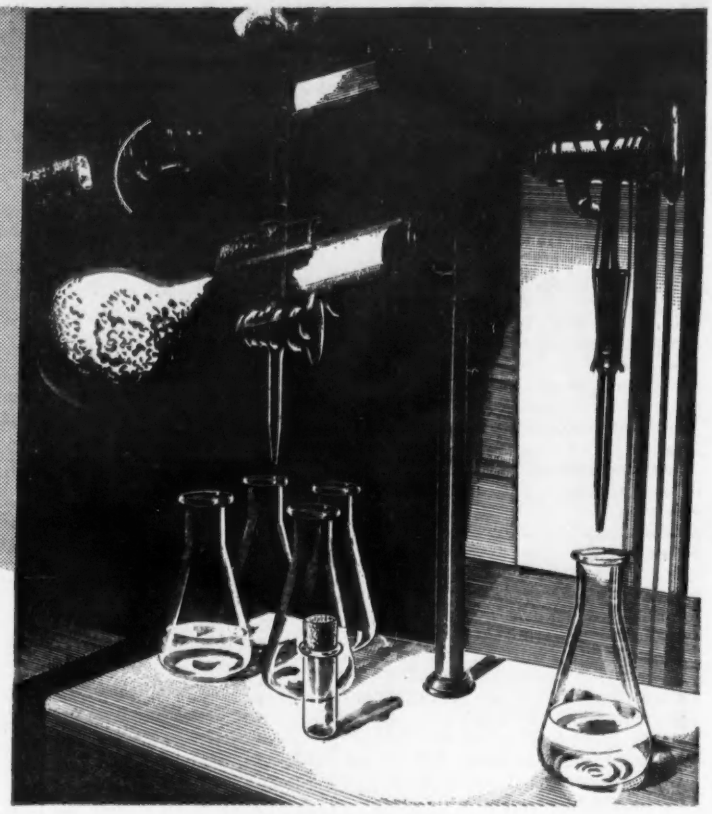

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ACID ACETIC, C.P., GLACIAL 99.5% ACS
ACID ACETYLSALICYLIC, U.S.P. (Aspirin)
ACID BENZOIC, U.S.P. (Synthetic)
ACID HYDROCHLORIC, C.P. ACS
ACID LACTIC, N.F., 85% Liquid
ACID NITRIC, C.P.
ACID PHOSPHORIC, N.F.
ACID SALICYLIC, U.S.P.
ACID SILICIC, C.P., Powder
ACID SULFURIC, C.P.
ACID TANNIC (Tannin), U.S.P.
ALUMINUM HYDROXIDE, U.S.P., Dried Gel
ALUMINUM SULFATE, N.F.
AMMONIUM ACETATE, Purified Crystal
AMMONIUM BROMIDE, N.F.
AMMONIUM CHLORIDE, U.S.P.
AMMONIUM HYDROXIDE, C.P. 26°
AMMONIUM HYDROXIDE, U.S.P.
AMMONIUM IODIDE, N.F.
AMMONIUM NITRATE, Purified
AMMONIUM SULFATE, C.P., Medicinal
AMMONIUM SULFATE, Purified White Granular
AMMONIUM THIOCYANATE, Purified

BARIUM SULFATE, U.S.P. X for Xray
BENZOCAINE, U.S.P.
BISMUTH NITRATE, Purified
BISMUTH SUBCARBONATE, U.S.P., Extra Light
BISMUTH SUBCARBONATE, U.S.P., Light Powder
BISMUTH SUBCARBONATE, U.S.P., Medium Powder
BISMUTH SUBCARBONATE, U.S.P., Heavy Powder
BISMUTH SUBGALLATE, N.F., Powder
BISMUTH SUBNITRATE, N.F., Light Powder
BROMINE, N.F.V.

CAFFEINE, U.S.P.
CALAMINE, U.S.P.
CALCIUM BROMIDE, N.F.
CALCIUM SALICYLATE
CARBON DISULFIDE, C.P. & Tech.
CARBON TETRACHLORIDE, C.P.
CHLORAL HYDRATE, U.S.P.
CHLOROFORM, U.S.P. & Tech.
CREAM OF TARTAR, U.S.P.

DEXTROSE, Medicinal Anhydrous
DEXTROSE, U.S.P. Granular

ETHER, Purified
ETHER PETROLEUM, C.P.

IODINE, U.S.P., Resublimed
IRON, N.F., Reduced by Hydrogen

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LEAD NITRATE, Purified
LITHIUM CARBONATE, N.F.

MAGNESIUM CARBONATE, U.S.P., Light Powder
MAGNESIUM CARBONATE, Technical
MAGNESIUM HYDROXIDE, Medicinal Powder
MAGNESIUM OXIDE, U.S.P., Extra Light
MAGNESIUM OXIDE, U.S.P., Light Powder
MAGNESIUM OXIDE, U.S.P.
MAGNESIUM OXIDE, U.S.P., Heavy Powder
MAGNESIUM PHOSPHATE, Purified, Secondary Powder
MAGNESIUM TRISILICATE, U.S.P.
MERBROMIN, N.F.
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MERCURY AMMONIATED, U.S.P.
MERCURY CHLORIDE, N.F.
MERCURIC OXIDE, N.F.V., Red
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RUTIN

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SALOL, U.S.P.
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# Drugs and Fine Chemicals

Castor beans and domestic blackstrap molasses moved up in last week's market, while natural menthol, cocoa butter and synthetic methanol were all lower. At the same time, one producer at press time announced boosts in aspirin, methyl salicylate and sodium salicylate, the action to take effect today on spot and April 1 on contract. Upshot of this price activity was an 0.8 point decline in the index, the figure dropping to a new reading of 251.6.

A stronger tone at the source forced a rise of $5 per long on castor beans. USP oil, however, held at previous levels. The advance in domestic blackstrap molasses, amounting to one-quarter cent per gallon, was limited to the New Orleans market, the New York posting holding firm.

With demand spotty, natural menthol fell off another 25 cents per pound. The lowering on synthetic methanol, which amounted to 1½ cents per gallon, was effected by one maker only and applied solely to carload and tankcar quantities in zone 2. Cocoa butter, reflecting commodity declines, fell off 1½ cents per pound. Late Friday, one producer announced increases of 2 cents per pound on aspirin USP methyl salicylate and USP sodium salicylate, the action to become effective today on spot and April 1 on contract.

Also of interest in methanol was the announcement last week by one maker of synthetic that henceforth the company would accept business in all areas included in zone 1. The move stemmed from the recent establishment of bulk terminal facilities by this producer at Cartaret, N. J. Previously, this seller had limited sales in zone 1 to Texas, Midwest and Gulf states.

There was some price discrepancy on perchloroethylene and trichloroethylene noted during the period, some makers quoting on a freight equalized basis and, at least, one seller employing the zonally freight allowed formula. This situation was attributed to January 1 abandonment of the zoning system by some producers.

With trading dull, agar held firm in the main. Stocks were plentiful. A cutback in beverage production because of large whiskey inventories at bonded warehouses was reported to have thrown fusel oil into short supply. Makers of amyl acetate and alcohol were naturally also low on material. There was a 3-cent spread on tankcar quotations of butadiene last week, the range stemming from a reduction by that amount by one maker on the first of the year. Second-quarter prices of this seller will move up one cent per pound.

Call for butyl alcohol, though relatively good, remained unimproved. Demand for camphor tablets was up slightly, powdered material moving at a steady pace. Ethyl alcohol sales were reported normal for February, prices holding firm. What will be done about second-quarter quotations was still a matter of conjecture as of press time, the decision still hinging on the outcome of the current impasse over the new crop of Cuban molasses. Ethyleneglycol, in balance, was stable pricewise. Formaldehyde sellers continued to report capacity business.

**Acetylsalicylic Acid**—One producer late last week announced an advance of 2c. per pound on aspirin. The action becomes effective today on spot and April 1 on contract.

**Agar** — Buying interest was not too brisk during the period, though sellers looked for an upswing within the next four to six weeks. Stocks were excellent. In fact, with the recent influx of Japanese material, some dealers even went so far as to describe the situation as one of oversupply. Stocks in Japan, at the same time, were said to be large. Although some shading was noted, prices were unchanged in the main. Kobe No. 1 strip ranged from $1.35 to $1.40 per pound, while 30-mesh powdered brought $1.65 per pound.

**Alcohol**—Because of the short month, February sales were expected to show a smaller volume than in January. However, demand in the main was said to be up to par. Stocks were adequate. Prices were firm last week, though what schedules will call for during the second quarter was still undetermined, the matter continuing to hinge on the outcome of the current impasse over the new crop of Cuban molasses. Western German production of ethyl alcohol in November totaled 721 metric tons, which compares with 990 tons produced in October.

The Alcohol Tax Unit, Bureau of Internal Revenue, Treasury Department, on March 3 released data on the supply, production, withdrawals, and stocks of ethyl, completely denatured and specially denatured alcohol during the month of January, 1950, in comparison with January, 1949:—

**Production**

| | Proof gallons— 1949 | 1948 |
|---|---|---|
| Ethyl | 25,368,140 | 26,567,028 |
| *Completely denatured | 233,436 | 148,253 |
| *Specially denatured | 14,669,876 | 12,707,053 |

**Withdrawals**

| | Wine gallons— 1949 | 1948 |
|---|---|---|
| †Ethyl, tax paid | 2,749,729 | 2,943,101 |
| tax-free | 27,721,460 | 23,987,693 |
| *Completely denatured | 375,283 | 169,286 |
| *Specially denatured | 14,959,295 | 12,759,640 |

**Stocks**

| | Gallons— 1949 | 1948 |
|---|---|---|
| †Ethyl | 31,345,990 | 37,153,853 |
| *Completely denatured | 435,647 | 157,710 |
| *Specially denatured | 3,028,755 | 2,035,504 |

* Wine gallons. † Proof gallons.

According to the Alcohol Tax Unit, materials used in industrial alcohol plants in the Januaries of 1949 and 1948 were as follows:—

| | Pounds— 1949 | 1948 |
|---|---|---|
| Corn and corn products | 652,541 | 1,802,564 |
| Rye and rye products | ..... | ..... |
| Malt and malt products | 448 | 513,414 |
| Wheat and wheat products | 5,152 | ..... |
| Sorghum grain and sorghum grain products | ..... | 5,328,375 |
| Total grain | 658,141 | 7,644,353 |
| Potatoes & potato products | ..... | 1,441,691 |
| Ethylene gas | 3,846,877 | 4,560,811 |
| Other materials | 93,130 | 175,300 |
| | Wine gallons— 1949 | 1948 |
| Molasses | 6,761,045 | 13,042,684 |
| Ethyl sulphate | 12,011,657 | 10,639,756 |
| Sulphite liquors | 18,437,300 | 22,513,800 |
| Other materials | 3,513,842 | 1,658,939 |
| *Products used in redistillation | 2,153,171 | 1,075,170 |

* Proof gallon.

**Amyl Acetate** — Ex fusel oil types of both the alcohol and acetate were in narrow supply last week, producers reporting more business than they could handle. This depletion of stocks was attributed directly to a scarcity of fusel oil, which, in turn, was said to have been brought about by a cutback in production by beverage makers because of heavy whiskey inventories at bonded warehouses. Prices, meanwhile, held steady. The United States Tariff Commission reported December production of normal amyl and isoamyl acetates at 828,908 pounds.

**Butadiene**—The price in tankcars last week ranged from 8½c. to 11½c. per pound, the spread stemming from a 3c. cut on January 1 by one producer. On April 1 this maker will move up to 9½c. per pound, tanks. As of late in the week it was still undetermined whether any price action was contemplated by other suppliers.

**Butyl Alcohol** — Business, though relatively good in the main, still failed to show any appreciable rise in volume last week. Stocks were adequate, and prices were maintained. The United States Tariff Commission reported December production of normal alcohol at 9,366,661 pounds, as opposed to the 12,076,691 pounds turned out during November.

**Camphor**—Demand was up slightly for tablets last week. Call for powdered material, however, remained at an even pace. Prices were steady all around. Exports of camphor from Taiwan, China, in 1949 totaled 30 metric tons.

**Castor Oil**—The price of beans was $5 higher last week, sales being noted at $125 per long ton. USP oil, meanwhile, remained firm at previous levels.

Imports of beans during the period totaled 61,679 bags, equivalent to 9,251,850 pounds, compared with 43,201 bags, or 6,480,150 pounds, during the previous week, and arrivals of 31,258 bags, or 4,688,700

*For Late Market Developments, See Page 4*

## *Market Trends*

**Prices Advanced**

Castor beans, $5 per long ton.
Molasses, blackstrap, New Orleans, ¼c. per gal.

**Prices Reduced**

Cocoa butter, 1½c. per lb.
Menthol, natural, USP, 25c. per lb.
Methanol, synthetic, c.l., tanks, zone 2, 1½c. per gal.

**Comparative Price Indexes**

(100—August 1, 1914)

| Last week | Prev. week | Last month | Dec. 30, 1949 | Mar. 4, 1949 |
|---|---|---|---|---|
| 251.6 | 252.4 | 253.6 | 254.4 | 257.8 |

*(For Current Prices see Page 9)*

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pounds, during the corresponding week in 1949.

Total imports of beans since January 1, 1950, amount to 306,020 bags, or 45,903,000 pounds, as opposed to importations of 514,745 bags, equivalent to 77,211,750 pounds, during the corresponding period of 1949.

**Cocoa Butter**—Reflecting weakness in the cocoa market, butter fell off another 1½c. per pound last week. The material was quoted at a range of 46½c. to 49c. per pound at week's end.

**Ethyl Acetate** — Production of 85 percent material in December totaled 6,455,925 pounds, which compares with 6,468,696 pounds. These figures are from the United States Tariff Commission.

**Ethyleneglycol** — A balanced supply-and-demand picture continued to prevail in this section last week. Prices were unchanged. Production in December, according to the United States Tariff Commission, totaled 38,090,197 pounds, as against 33,359,123 pounds turned out during the preceding month.

**Formaldehyde** — Capacity business remained the rule in last week's market. The price structure was maintained, and in view of continued keenness of competition, observers felt that any imminent advances were unlikely. The United States Tariff Commission reported December output at 58,437,502 pounds, which compares with 51,886327 pounds in November.

**Menthol**—Prices on natural slipped another 25c. per pound last week, demand continuing spotty. Brazilian was named at $9.90 to $10 per pound, while Chinese brought $10 to $10.10. Stocks were viewed as ample. Synthetic held steady at a nominal quotation of $7.25 per pound.

**Methanol** — One producer of synthetic material, who recently announced new bulk terminal facilities at Cartaret, N. J., last week expanded Eastern distribution to all areas included in zone 1. Previously this maker had limited sales in zone 1 to Texas, Midwest and Gulf states. At the same time, schedules of this producer covering zone 2 were cut 1½c. per gallon on carload and tankcar quantities. As a result of the week's price action, zone 2 listings on carloads of synthetic methanol range from 43½c. to 45c., while tankcars command 29½c. to 31. The less-carlot price in zone 2, however, remains unchanged at 47½c. per gallon.

The United States Tariff Commission reported December production of synthetic methanol at 70,569,541 pounds, which compares with 64,998,646 pounds turned out in November. Output during all of 1949 totaled 831,220,122 pounds. Meanwhile, Western Germany produced 7,000 metric tons of synthetic methanol in November, which compares with 4,098 tons in October.

**Methyl Salicylate**—An advance of 2c. per pound on USP material was announced by one maker late last week. The action takes effect today on spot and April 1 on contract.

**Milk Powder**—The market for skimmed was steady last week, demand good. Supplies, already ample, were reported on the increase. Spray process skimmed milk was quoted at 12¼c. to 12¾c. per pound for carload quantities, with most sales at 12½c. Roller process brought 10½c. to 10⅝c. per pound in carloads.

Commodity Credit Corporation purchases during February 17-23 inclusive totaled 3,611,795 pounds of spray process skimmed milk powder at 12½c. and 1,862,175 pounds of roller process at 10½c. per pound. Total milk solids purchases by the government this year totaled 44,457,722 pounds, compared with 910,125 pounds bought during the corresponding period in 1949.

**Milk Sugar**—Prices were steady during the period. Inventories were reported on the decline, a customary trend at this time of year. Demand was moderately heavy, particularly for USP material. Export business was slow. Following are current quotations: — Crude, carload, 16½c.; edible, 22c. to 23¼c., and USP, 26c. to 27¼c. per pound.

**Molasses**—Domestic producers of blackstrap reported a stronger tone at New Orleans last week, the tankcar price at that point moving up ¼c. to a new listing of 6¼c. per gallon. The New York tankcar quotation held firm at 8c. per gallon. Stocks were said to be fair in the face of continuing lively demand.

The Cuban situation, meanwhile, remained substantially unchanged. Only a little more than a third of the new crop has been booked, Great Britain having contracted for 60,000,000 gallons and

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American buyers, mainly the feed trade, accounting for a like amount. The American alcohol industry, however, still held aloof, but with the growing storage problem in Cuba and the approach of the deadline for second-quarter alcohol price lists, most observers were of the opinion that the situation would soon come to a head.

**Penicillin and Salts** — Production was reported to be keeping pace with a very active demand last week. Interest was said to be particularly heavy for tablet-grade potassium penicillin and procaine material. Conditions in the market remained highly competitive, and indications were that they would probably get keener this Spring and Summer. However, prices last week were maintained at recently-depressed levels, and there was nothing known to be in the making regarding any imminent changes in either direction. The United States Tariff Commission reported December production at 13,960,315 million units, which compares with November's output of 14,031,891 million units.

**Perchloroethylene** — There was a lack of uniformity in prices last week, some producers quoting on a freight equalized basis and, at least, one supplier employing the zonally freight allowed formula. This divergence in the market was due to the abandonment of the zoning system by some makers at the first of the year, at which time cuts averaging ¼c. per pound were also effected by these suppliers.

**Phenobarbital** — Production in December, according to the United States Tariff Commission, totaled 32,299 pounds, which compares with 29,153 pounds turned out in November.

**Sodium Salicylate**—One seller late last week announced a 2c. per pound boost in USP material. The action becomes effective today on spot and April 1 on contract.

**Streptomycin** — Demand was said to have leveled off from the capacity business of last Fall. Production was reported to be on the increase. Inquiries continued heavy from abroad, but because of the depletion of ECA funds few sales were transacted. Prices were unchanged at 60c. per gram for hospitals in vials and 48c. for wholesalers.

**Testosterone**—Rumors of price cutting at the distribution level, reported in the previous issue, are entirely unfounded, a thorough check of the market revealed last week. Testosterone and its propionate ester both continued firm at $3.75 per gram for 100-gram lots, while methyl testosterone was similarly steady at $3.50 per gram for like quantities.

**Trichloroethylene** — Prices, which were firm last week, were based on two methods of sale, a freight equalized basis and a zonally freight allowed formula. The lack of quotational uniformity in the market stemmed from abandonment of the zoning system by several producers at the first of the year, which action was accompanied by a reduction averaging ¼c. per pound.


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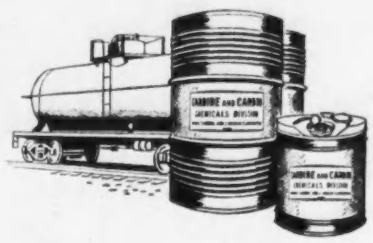

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## Molasses, Sugarcane Sirups Standards Meeting Tomorrow

A meeting will be held at the Monteleone hotel, New Orleans, La., tomorrow to discuss proposed quality standards for sugarcane sirups and molasses, according to the Department of Agriculture.

Tentative grades and specifications for pure sugarcane sirups and molasses will be presented by representatives of the sugar branch, Production and Marketing Administration. These grades are based on results of chemical analyses made on samples collected during the 1948 and 1949 seasons, and on information and recommendations received from the producers and distributors of these products.

As now proposed, the tentative standards provide for three grades of sugarcane molasses and two grades each of sulphured and unsulphured sugarcane sirups. The standards being developed are permissive and are applicable to pure sugarcane sirup and molasses marketed in bulk by producers or distributors and distributed in drums, barrels, cans, or glass containers to industrial users or to the wholesale and retail trade.

In order to obtain the best possible information with respect to the proposed marketing standards, the department has invited all interested persons to attend the meeting and to express their views.

## Siegel Chemical's Export License Privileges Lifted

Export license privileges of Siegel Chemical Company, New York, have been suspended for violation of export control regulations, the Office of International Trade, Department of Commerce, announced February 28. Suspension action was based on findings made by OIT Compliance Commissioner Milton M. Thompson.

The company was found after oral hearing to have falsely represented the ultimate use and destination of tetramethyl thiuramdisulphide. The license application certified it was to be shipped to Switzerland for use in the manufacture of fungicides in that country. It was learned, however, that the New York concern had letters from the Swiss consignee disclosing that the true ultimate destination of the chemical was Czechoslovakia, and that it was to be used in the production of rubber by a Czech firm. Since no export license was granted by OIT, shipment of the chemical was not made.

The suspension against the concern includes Robert Siegel, president, and Thomas A. Arnholz, Export Manager and runs for a period of six months. It prohibits the exportation under either validated or general license of any commodity on the export control positive list.

## Lyman to Be Honored By Arizona Pharmacists

In recognition of the services of Dean Rufus Ashley Lyman of the University of Arizona College of Pharmacy to American pharmacy, the pharmacists of his state will present a bronze bust of the dean to the college March 18. The presentation will be made at a dinner in the Old Pueblo Club, Tucson.

Dr. Edward S. Elliott, who headed the survey work of the American Foundation for Pharmaceutical Education, will be the principal speaker at the testimonial affair. The bronze bust will be received by Dr. Byron C. McCormick, president of the University of Arizona. Dr. Robert Nugent, vice-president of the university, will be toastmaster. Arrangements are being supervised by G. Benner Kelly, 230 Sierra Vista drive, Tucson.

## Sharp & Dohme (Canada) Opens New Toronto Plant

Sharp & Dohme (Canada), Ltd., recently opened its new $400,000 pharmaceutical manufacturing laboratories in East York Township, Toronto, Ont. The new laboratories, designed as the Canadian production and distribution center for all Sharp & Dohme pharmaceutical and biological products, are equipped to manufacture ointments, elixirs, tablets, powders and other medicinal dosage forms and are designed to utilize the latest techniques of continuous flow production.

### Stange Publishes Booklet

The William J. Stange Company, Chicago, has published a booklet entitled "The Story Behind Stange." The publication tells the story of the transition of seasoning from a "spice is spice" concept to an exact art-science which adds to seasoning the "blessings" of dependable uniformity. Copies may be obtained from the company.

## Von Bernuth Leaves Pfizer

Robert G. von Bernuth has resigned as eastern regional manager of Chas. Pfizer & Co., Brooklyn, N. Y., after sixteen years service with the firm. He returned to the New York office last year after three years as manager on the Pacific Coast.

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**Paper**—Suggested as antioxidant in sizing compositions.

**Resin**—Suggested as antioxidant for resinous compositions and materials.

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**Pharmaceutical**—Claimed useful in applications where calcium therapy is indicated.

### Cysteine Hydrochloride

**Pharmaceutical**—Claimed useful as bacterial inhibitor when applied to cutaneous wounds and ulcers, promoter of granulation of tissues, wet dressing for post-operative wounds, denuded skin surfaces where skin grafting has failed, and for various ulcers.

### Dehydrocholic Acid

**Pharmaceutical**—Claimed useful in gall bladder therapy.

### Diamylphenol

**Chemical**—Starting point in making diamylphenoxy acetate (potentially useful in agricultural applications, various intermediates.

**Paint, Varnish, and Lacquer**—Suggested for use as antiskinning agent, aid in pigment dispersion.

**Petroleum**—Reactant in making antifoaming agents, emulsion breakers, lubricating oil additives.

**Plastics**—Suggested for use as plasticizer and in making plasticizers and stabilizers.

**Resin**—Suggested as raw material for making modified phenolic and oil-soluble phenolic resins.

**Rubber**—Softener for butyl rubber.

Starting point in making phenol sulphides (useful both as peptizing agents in reclaiming operations and as vulcanizing agents).

## Hoffmann-LaRoche Offers Synthetic A Acetate

Volume production of synthetic vitamin A acetate has been inaugurated by Hoffmann-Roche, Inc., Nutley, N. J. Production of the palmitate was started several weeks ago.

The vitamin A acetate is being marketed in a corn oil medium in aluminum bottles sealed under nitrogen and labeled according to customer specifications. It is standardized at 1,000,000 units per gram and priced at 30 cents per million units.

## Duck Retires From Ciba

Eldridge C. Duck, who was one of the first professional service representatives of Ciba Pharmaceutical Products, Inc., Summit, N. J., retired recently after twenty-seven years with the company. He joined Ciba in 1923 and was first assigned to a territory that included Alabama, Mississippi, Florida and part of Georgia. As sales in this area increased and more representatives were added to the staff, Mr. Duck concentrated his efforts in Florida.

## Ketchum Buys Milcon Drug

Ketchum & Co., New York, has purchased the assets, name and good will of the Milcon Drug Company, Cleveland. The Milcon organization will be operated as the Cleveland wholesale drug division of Ketchum & Co., and Emmett M. Altshul, vice-president and treasurer of the New York organization, has been assigned as temporary resident manager in Cleveland.


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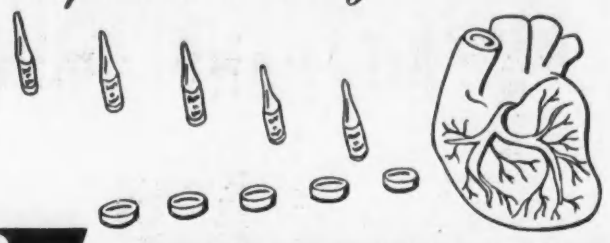

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# Imports at United States Ports

## New York

ALOES—100 cs, Selma Mercantile Corp, Triton, Curacao
ALUMINUM CARBIDE—1 cs, Eimer & Amend, Choctaw, Bremen
ANISE—334 bgs, Roseville, Izmir
150 bgs, M J Golombeck Co, Magallanes, Vera Cruz
3 bgs, American Roland Co, Trajanus, Port au Prince
ANNATTO SEED—50 bgs, Marcel Calvet, Cape Avinof, Kingston
107 bgs, D Steengrafe & Co, Cape Avinof, Kingston
100 bgs, International Expeditors, Cape Avinof, Kingston
55 bgs, Charles T Wilson Co, Cape Avinof, Kingston
ANTHRAQUINONE POWDER—7 dms, Irving Trust Co, Franconia, Liverpool
ARGOLS—308 bgs, Excalibur, Naples
ASBESTOS FIBER—1,200 bgs, Johns Manville Co, Robin Sherwood, Lourenco Marques
205 bgs, Colombian Development Corp, Robin Sherwood, Durban
575 bgs, Johns-Manville, Pioneer Glen, Fremantle
BASIL LEAVES—5 seroons, Citrus & Allied Essential Oils Co, Kathryn, Puerto Plata
BEESWAX—90 blocks, Arnold Dorr Co, Fernside, Luanda
50 seroons, Porcella Vicini, Agamemnon, Puerto Plata
12 bgs, Machado & Co, Puerto Rico, Ciudad Trujillo
41 bgs, Ocean Commercial Co, Puerto Rico, Ciudad Trujillo
129 bgs, Strohmeyer & Arpe Co, Amsteldyk, Rotterdam
69 bls, W R Grace & Co, American Attorney, Amsterdam
69 bgs, Will & Baumer Candle Co, Agwidale, Havana
200 bgs, Samuel Zeitlins Sons Co, Brazil, Santos
30 bls, Stein, Hall & Co, Elin Horn, Lisbon
63 bls, F B Ross Co, Elin Horn, Lisbon
16 bgs, Geck Trading Corp, Kathryn, Ciudad Trujillo
10 bgs, Machado & Co, Kathryn, Ciudad Trujillo
10 bgs, Wessels Kulenkamp, Kathryn, Puerto Plata
40 bgs, Will & Baumer Candle Co, Castor, Santiago
BELLADONNA ROOT—5 bls, Trust Company of North America, Executor, Constanza
BENZOIN GUM—6 cs, Steel Traveler, Bangkok
4 cs, van Ameringen-Haebler, Inc, Steel Traveler, Bangkok
48 bdls, Grace National Bank, Steel Traveler, Singapore
18 bdls, R S Prentiss & Co, Steel Traveler, Singapore
18 bdls, Steel Traveler, Singapore
10 cs, van Ameringen-Haebler, Inc, Steel Admiral, Bangkok
18 cs, R E Apelt Co, Oluf Maersk, Bangkok
2 cs, Meer Corp, Tabian, Singapore
BERYL ORE—130 bgs, Watson Geach Co, Robin Sherwood, Cape Town
100 bgs, Derby & Co, Robin Sherwood, Cape Town
500 bgs, South American Minerals & Merchandise Co, Mormactern, Cabedello
1,000 bgs, Berks County Trust Co, Mormactern, Cabedello
1,000 bgs, Royal Bank of Canada, Mormactern, Ilheus
452 bgs, Beryllium Corp, Mormactern, Ilheus
BISMUTH—65 cs, Cerro De Pasco Copper Corp, Santa Barbara, Callao
BITTERWOOD LOGS—10 tons, S B Penick & Co, Cape Avinof, Kingston
BONEMEAL—4,400 bgs, Woodward & Dickerson Co, Steel Traveler, Alexandria
CALAMUS ROOT—14 cs, Trust Company of North America, Executor, Constanza
CAMPHOR OIL—5 dms, Orbis Products Corp, Pioneer Cove, Keelung
WHITE, FRACTIONATED—10 dms, Orbis Products Corp, Pioneer Cove, Keelung
CANARYSEED—550 bgs, Transatlantic Commodities Corp, Elin Horn, Casablanca
CARAWAY OIL—4 dms, Flora Essential Oil Co, Amsteldyk, Rotterdam
SEED—100 bgs, Catz American Seed Co, Amsteldyk, Rotterdam
CARDAMOM—22 cs, William E Martin Co, Steel Traveler, Colombo
CARNAUBA WAX—22 bgs, Wessel, Duval & Co, Mormactern, Fortaleza
36 bgs, Wax & Rosin Products Co, Mormactern, Fortaleza
55 bgs, Cornelius Products Corp, Mormactern, Fortaleza
137 bgs, Cornelius Products Corp, Mormactern, Parnahyba
251 bgs, Wessel, Duval & Co, Mormactern, Parnahyba
125 bgs, 1st National Bank Boston, Mormactern, Parnahyba
125 bgs, William M Diel & Co, Mormactern, Parnahyba
701 bgs, W R Grace & Co, Mormactern, Parnahyba
374 bgs, F Henjes Jr & Co, Mormactern, Parnahyba
112 bgs, Wessel, Duval & Co, Mormactern, Areia Branca
168 bgs, Wessel, Duval & Co, Mormactern, Fortaleza
111 bgs, Frank B Ross Co, Mormactern, Fortaleza
33 bgs, William Diehl & Co, Mormactern, Fortaleza
55 bgs, Innis, Speiden & Co, Mormactern, Fortaleza
22 bgs, E A Bromund Co, Mormactern, Fortaleza
33 bgs, William Diehl Co, Mormactern, Fortaleza
12 bgs, J W Hanson Co, Brazil, Rio de Janeiro
125 bgs, Natural Products Corp, Brazil, Rio de Janeiro
CASEIN—1,000 bgs, Borden Co, Bowrio, Buenos Aires
500 bgs, Tupman-Thurlow Co, Bowrio, Montevideo
4,400 bgs, Bank of Manhattan Co, Pioneer Glen, Melbourne
600 bgs, International Packers Commercial Co, Granadero, Buenos Aires
1,000 bgs, T J Kane Co, Granadero, Buenos Aires
1,000 bgs, American British Chemical Supply Co, Brazil, Buenos Aires
1,000 bgs, Wilbur Ellis Co, Brazil, Buenos Aires
3,000 bgs, Crawford Co, Brazil, Buenos Aires
1,320 bgs, Borden Co, Brazil, Buenos Aires
1,000 bgs, American Cyanamid Co, Brazil, Buenos Aires
200 bgs, Borden Chemical Co, Oslofjord, Oslo
CASSIA—300 bls, Volkart Bros Co, Hurricane, Hong Kong
150 bls, Arthur G Dunn, Pioneer Cove, Hong Kong
150 bls, Karl H Landes, Inc, Pioneer Cove, Hong Kong
300 bls, Griffith Labs Inc, Pioneer Cove, Hong Kong
200 bls, Arnhold & Co, Steel Admiral, Hong Kong
83 bls, George Uhe Co, Steel Admiral, Hong Kong
CASSIA OIL—21 dms, George Uhe Co, Hurricane, Hong Kong
5 dms, George Lueders & Co, Hurricane, Hong Kong
CASTOR BEANS—6,793 bgs, Baker Castor Oil Co, Mormactern, Maceio
3,387 bgs, Spencer Kellogg & Sons Co, Mormactern, Maceio
11,900 bgs, Baker Castor Oil Co, Mormactern, Recife
1,600 bgs, Spencer Kellogg & Sons Co, Mormactern, Fortaleza
7,650 bgs, Baker Castor Oil Co, Bowrio, Santos
12,654 bgs, Baker Castor Oil Co, Fernside, Lobito
3,738 bgs, Baker Castor Oil Co, Fernside, Nuevo Redondo
467 bgs, Spencer Kellogg & Sons Co, Isaiah, Cape Haitien
1,667 bgs, Baker Castor Oil Co, Mormactern, Bahia
6,723 bgs, Baker Castor Oil Co, Mormactern, Bahia
5,100 bgs, Baker Castor Oil Co, Agnete, Bahia
OIL—217 tons, Bunge Corp, Mormactern, Recife
100 tons, H D Sheldon Co, Mormactern, Recife
217 tons, Mormactern, Fortaleza
90 dms, Bunge Corp, Mormactern, Fortaleza
152 tons, Pacific Vegetable Oil Corp, Mormactern, Fortaleza
222 tons, Bank of California, Mormactern, Fortaleza
CELERYSEED—170 bgs, Louis Furth, Inc, Steel Apprentice, Bombay
170 bgs, B H Old Co, Steel Apprentice, Bombay
170 bgs, Becker-Mayer Seed Co, Steel Apprentice, Bombay
CERAMIC COLORS—1 cs, Croxall Chemical & Supply Co, American Packer, Liverpool
5 cs, American Express Co, American Packer, Liverpool
2 cks, B F Drakenfeld, Franconia, Liverpool
2 cs, B F Drakenfeld, Franconia, Liverpool
CETYL ALCOHOL—55 cs, Orbis Products Corp, Franconia, Liverpool
10 cs, Franconia, Liverpool
CHILLIES—50 bgs, B H Old & Co, Pioneer Cove, Kobe
93 bgs, Otto Gerdau & Co, Pioneer Cove, Kobe
57 bgs, Societe Generale, Fernside, Lagos
262 bgs, John Holt, Fernside, Lagos
CHROME ORE—2,135 tons, E J Lavino & Co, Pioneer Cove, Santa Cruz
CINCHONA PRODUCTS—16 cs, Guaranty Trust Co, Amsteldyk, Rotterdam
20 dms, Guaranty Trust Co, Amsteldyk, Rotterdam
CINNAMON BARK OIL—1 cs, Dodge & Olcott, Inc, Steel Traveler, Galle
LEAF OIL—2 dms, Volkart Bros Co, Steel Traveler, Galle
QUILLS—250 bls, Louis Furth, Inc, Steel Traveler, Colombo
CITRONELLA OIL—15 dms, Felton Chemical Co, Pioneer Cove, Keelung
52 dms, A Maschmaijer, Jr, Inc, Pioneer Cove, Keelung
25 dms, Norda Essential Oil & Chemical Co, Pioneer Cove, Keelung
17 dms, Givaudan Corp, Pioneer Cove, Keelung
COD LIVERS—138 dms, Silmo Chemical Corp, Fort Avalon, Port Aux Basques
OIL—100 dms, Scandinavian Oil Co, Fort Avalon, St Johns
20 dms, Arista Oil Products Co, Fort Avalon, St Johns
50 dms, E F Drew Co, Fort Avalon, St Johns
203 dms, Atlas Refinery, Fort Avalon, St Johns
300 dms, Nopco Chemical Co, Fort Avalon, St Johns
100 dms, Arista Oil Products Co, Ranenfjord, Bergen
170 tons, Bankers Trust Co, Trollafoss, Reykjavik
200 dms, American Shipping Co, Trollafoss, Reykjavik
100 dms, Thompson-Hayward Chemical Co, Trollafoss, Reykjavik
COLORS, DRY BLUE—1 cs, Filo Color & Chemical Corp, American Packer, Manchester
COLUMBITE ORE—40 bgs, Metal & Ore Corp, Agnete, Rio de Janeiro
1,120 bgs, Union Carbide & Carbon Corp, Cargill, Lagos
COPAL GUM—371 bskts, Internatio Rotterdam, Inc, Tabian, Singapore
62 bskts, O G Innes Corp, Tabian, Singapore
163 bgs, O G Innes Corp, Steenstraete, Matadi
415 bgs, Internatio Rotterdam, Inc, Steenstraete, Matadi
300 bgs, Gillespie-Rogers-Pyatt Co, Steenstraete, Matadi
186 bgs, U S Industrial Chemicals, Inc, Steel Admiral, Manila
785 bgs, U S Industrial Chemical Co, Bastogne, Antwerp
13 bgs, J L Rie Co, Pioneer Cove, Manila
91 bgs, S Winterbourne & Co, Steenstraete, Matadi
911 bgs, U S Industrial Chemicals, Inc, Steenstraete, Matadi
121 bgs, O G Innes Corp, Steenstraete, Matadi
COPPER CONCENTRATES—1,700 tons, American Metal Co, Gladys Dan, Valparaiso
COPRA CAKE—6,720 bgs, Coop Exchange, Hurricane, Manila
CREAM OF TARTAR—100 bbls, T M Duche & Sons Co, Excalibur, Genoa
CRESYLIC ACID—329 dms, American Cyanamid Co, American Packer, Liverpool
60 dms, Monsanto Chemical Co, American Packer, Liverpool
CRINOTHENE—4 ctns, Queen Elizabeth, Southampton
CUTCH—1,000 bgs, Saxe Cutch Corp, Tabian, Singapore
CYANIDE, POWDER—500 dms, Terra Chemicals, Inc, Choctaw, Rotterdam
DAMMAR GUM—100 cs, O G Innes Corp, Steel Traveler, Bangkok
30 cs, U S Industrial Chemical Co, Olaf Maersk, Bangkok
DANDELION ROOT—25 bls, R J Prentiss & Co, Amsteldyk, Antwerp
14 bls, Peek & Velsor, Inc, Amsteldyk, Antwerp
DEXTRIN—60 bgs, Stein, Hall & Co, Amsteldyk, Rotterdam
DILLSEED—300 bgs, Khandeshwalla, Ltd, Steel Apprentice, Bombay
DIVI DIVI—419 seroons, Curacao Trading Co, Agamemnon, Puerto Plata
1,062 bgs, Selma Mercantile Corp, Triton, Curacao
DODECYL BENZENE—1 dm, Monsanto Chemical Co, American Packer, Liverpool
DOGGRASS ROOT—5 bls, R J Prentiss & Co, Amsteldyk, Antwerp
10 bls, S B Penick & Co, Amsteldyk Antwerp
DRUGS, CRUDE—62 bgs, Peek & Velsor, Inc, Amsteldyk, Rotterdam
ESSENTIAL OILS—38 dms, Villar & Osorio Co, Choctaw, Antwerp
4 dms, Roure Manufacturing Co, Excalibur, Marseilles
2 cs, Roure Manufacturing Co, Excalibur, Marseilles
1 dm, Givaudan Delawanna, Excalibur, Marseilles
10 dms, Fritzsche Bros Co, Excalibur, Marseilles
5 dms, Naugatuck Aromatics, Excalibur, Marseilles
ETHYLMETATOLUIDIN SULPHATE—1 cs, American Express Co, American Packer, Liverpool
FERRO MOLYBDENUM—400 cs, F H Lenway Co, Pioneer Cove, Kobe
TUNGSTEN—200 cs, Frank Samuel & Co, Pioneer Cove, Yokohama
FISHLIVER OIL—1 cs, Podbielnak, Inc, Trollafoss, Reykjavik
13 dms, International Fisheries Corp, Hurricane, Yokohama
8 dms, Transocean Commerce Inc, Pioneer Cove, Yokohama
FISHMEAL—1,740 bgs, M Hochschid Co, Gladys Dan, Supe
497 bgs, Elin Horn, Casablanca
461 bgs, Balfour Guthrie & Co, Imperial, Iquique
FLEASEED—614 bgs, T M Duche & Sons Co, Steel Apprentice, Bombay
350 bgs, Parke, Davis Co, Steel Apprentice, Bombay
340 bgs, R J Prentiss & Co, Steel Apprentice, Bombay
FUEL OIL—101,000 bbls, Esso Export Corp, Esso Hartford, Aruba
104,637 bbls, Esso Standard Oil Co, Abu, Caripito
106,382 bbls, Asiatic Petroleum Corp, Saconnet, Punta Gardon
101,000 bbls, Esso Standard Oil Co, Esso Bethlehem, Aruba
100,471 bbls, Metropolitan Petroleum Corp, Afghanistan, Curacao
93,000 bbls, Esso Standard Oil Co, Esso Balboa, Aruba
103,000 bbls, Esso Standard Oil Co, Fort Fetterman, Aruba
10,000 bbls, Asiatic Petroleum Corp, Santa Paula, Curacao
GALLNUTS—168 bgs, S B Penick & Co, Pioneer Cove, Hong Kong
GELATIN—25 cs, Coignet Chemical Co, Bastogne, Antwerp
GENTIAN ROOT—98 bgs, R J Prentiss & Co, St Tropez, Marseilles
GERANIUM OIL—6 dms, Norda Essential Oil & Chemical Co, Hellenic Star, Algiers
GLYCERIN—60 dms, C J Schellings & Co, Oluf Maersk, Bangkok
110,230 lbs, Colgate-Palmolive-Peet Co, Bowrio, Buenos Aires
163,347 lbs, International Packers Commercial Co, Bowrio, Buenos Aires
GRAPHITE—257 bgs, Superior Flake Graphite Co, Tabian, Colombo
GYPSUM, CALCINED—224 bgs, Whittaker, Clark & Daniels, Franconia, Liverpool
CRUDE—9,953 tons, U S Gypsum Co, Gypsum Prince, Hantsport
9,862 tons, U S Gypsum Co, Gypsum Prince, Hantsport
200 bgs, Charles B Chrystal Co, Franconia, Liverpool
HEMPSEED—78 bgs, Hellenic Star, Istanbul
HYALCOL, SIZE AGENT—11 dms, Duplan Corp, American Packer, Liverpool
IRISHMOSS—100 cs, Transworld Export Co, Oslofjord, Oslo
KARAYA GUM—214 bgs, J B Grunan Co, Mt Mansfield.
LEMONGRASS OIL—10 dms, East Asiatic Co, Oluf Maersk, Cochin
10 dms, National City Bank, Oluf Maersk, Cochin
6 dms, Volkart Bros Co, Agnete, Santos
LIME JUICE—13 bbls, Citrus & Allied Essential Oils Co, Kathryn, Puerto Plata
OIL—65 cs, Polaks Frutal Works, Brazil, Port of Spain
6 cs, Florasynth Laboratories Inc, Brazil, Port of Spain
1 dm, Citrus & Allied Essential Oils Co, Kathryn, Puerto Plata
LIVER CONCENTRATES—25 cs, U S Vitamin Corp, Brazil, Buenos Aires
4 dms, Wilson & Co, Brazil, Buenos Aires
LITHOPONE—400 bgs, Amsteldyk, Rotterdam
LOCUST BEAN GUM—100 bgs, Paul A Dunkel, Excalibur, Genoa
700 bgs, Excalibur, Genoa
LOGWOOD EXTRACT—10 cks, American Dyewood Co, Cape Avinof, Kingston
MACE—24 cs, Stern Morgenthau Co, Oluf Maersk, Penang
MAGNESIUM CARBONATE—25 cs, Intermaritime Forwarding Co, Bastogne, Antwerp
MALT—5,200 bgs, Chase National Bank, American Attorney, Rotterdam
MANGROVE BARK—816 seroons, Curacao Trading Co, Agamemnon, Puerto Plata
MARJORAM—50 bgs, J A Marichal, Agamemnon, Puerto Plata
25 bgs, J A Marichal, Puerto Rico, Ciudad Trujillo
MEDICINAL HERBS—10 cs, S B Penick & Co, Amsteldyk, Antwerp
30 bls, Excalibur, Leghorn
LEAVES—1 bl, S B Penick & Co, Excalibur, Genoa
METACRESOL—1 dm, Monsanto Chemical Co, American Packer, Liverpool
METALLIC SALTS—26 dms, American Express Co, Queen Elizabeth, Southampton
METAMINOPHENOL—3 dms, Philipp Bauer, Amsteldyk, Rotterdam
MICA—139 cs, Andrew Lager, Agnete, Rio de Janeiro
40 cs, United Mineral & Chemical Corp, Agnete, Rio de Janeiro
49 cs, Eugene Munsell Co, Agnete, Rio de Janeiro
14 cs, Brown Bros Harriman Co, Agnete, Rio de Janeiro
200 cs, Colonial Trust Co, Agnete, Rio de Janeiro
616 cs, Asheville Schoonmaker Mica Corp, Brazil, Buenos Aires
10 cs, Micacraft Products Inc, Brazil, Santos
20 cs, American Mica Works, Brazil, Rio de Janeiro
29 cs, Cosmopolitan Trading Co, Brazil, Rio de Janeiro
99 cs, Sylvania Electric Products, Brazil, Rio de Janeiro
MINERAL CONCENTRATES—5,197 bgs, American Metal Co, Gladys Dan, Bolivar
MOLASSES, BEET—2 dms, Charles Pfizer & Co, Amsteldyk, Rotterdam
MYRTLE OIL—1 cs, Antoine Chiris, Excalibur, Genoa
NAPHTHALENE—3,333 bgs, Allied Chemical & Dye Co, American Attorney, Rotterdam
4,119 bgs, Calco Chemical Co, Choctaw, Rotterdam
NAPHTHENIC ACID—2,400 bbls, Stanco Inc, Esso Bethlehem, Aruba
NEATSFOOT OIL—70 dms, Ovimpex Inc, Granadero, Buenos Aires
NICARAGUA BALSAM—4 dms, Wessel, Duval & Co, Cape Avinof, Cristobal
NUTMEGS—62 bgs, William E Martin Co, Oluf Maersk, Colombo
60 bgs, Karl H Landes, Inc, Steel Traveler, Colombo
41 bgs, William E Martin Co, Steel Traveler, Colombo
96 bgs, Internatio Rotterdam Inc, Tabian, Singapore
OCOTEA CYMBARUM OIL—58 dms, Norda Essential Oil & Chemical Co, Agnete, Itajai
46 dms, New York Trust Co, Agnete, Itajai
22 dms, Dodge & Olcott Inc, Agnete, Itajai
100 dms, Pacific Vegetable Oil Corp, Mormactern, Areia Branca
OITICICA OIL—100 dms, Pacific Vegetable Oil Corp, Mormactern, Areia Branca
OLIVE OIL—50 dms, Uddo Taormina, Sobieski, Palermo
100 dms, Old Monk Olive Oil Co, Excalibur, Marseilles
125 dms, Chemical Bank & Trust Co, St Tropez, Seville
ORANGE OIL—4 dms, Citrus & Allied Essential Oils Co, Kathryn, Puerto Plata
BITTER—27 cs, J Manheimer, Bufjord, Roseau
PEELS—170 bgs, Trajanus, Cape Haitien
576 bgs, S B Penick & Co, Trajanus, Cape Haitien
ORE CONCENTRATES—2 dms, American Cyanamid Co, Cambray, Takoradi
493 bgs, American Cyanamid Co, Pioneer Glen, Brisbane
OURICURY WAX—80 bgs, J W Hanson Co, Brazil, Rio de Janeiro
112 bgs, Wessel, Duval & Co, Fenris, Bahia
112 bgs, Frank B Ross Co, Fenris, Bahia
[illegible] J W Hanson Co, Mormactern, Bahia
35 bgs, Mormactern, Bahia
56 bgs, Wessel, Duval & Co, Agnete, Bahia
135 bgs, J W Hanson Co, Agnete, Rio de Janeiro
35 bgs, Natural Products Corp, Agnete, Rio de Janeiro
OX GALL—4 cks, Charles Hollinshed Co, Granadero, Buenos Aires
11 cks, Van Gelder-Fanto Corp, Brazil, Buenos Aires
4 tcs, Armour & Co, Brazil, Buenos Aires
20 cs, Biddle Sawyer Corp, Franconia, Liverpool
PALM OIL—547 tons, Lever Bros Co, Fernside, Matadi
1,026 tons, Balfour Guthrie & Co, Steenstraete, Matadi
PAPRIKA—200 bgs, H Schoenfeld & Sons Co, American Attorney, Rotterdam
1,469 bgs, Colonial Trust Co, Santa Barbara, Valparaiso
100 bgs, American Export Technicians, Inc, St Tropez, Alicante
450 bgs, St Tropez, Alicante
400 bgs, W E Martin Co, Amsteldyk, Rotterdam
PATCHOULI OIL—10 cs, J H Vavasseur Co, Steel Traveler, Penang
1 dm, J H Vavasseur Co, Steel Traveler, Penang
4 dms, J Eec[illegible] Co, Steel Admiral, Penang
2 dms, [illegible]bee & Reynard, Inc, Olaf Maersk, Penang
PEATMOSS, Premier Peatmoss Corp, American Packer, Dublin
PEPPER, BLACK—160 bgs, E A Export Corp, Oluf Maersk, Alleppey
160 bgs, Oluf Maersk, Alleppey
240 bgs, Oluf Maersk, Genoa
240 bgs, Mincing Trading Corp, Steel Apprentice, Bombay
80 bgs, East Asiatic Co, Steel Apprentice, Bombay
1,[illegible] bgs, Lo Curto Funk Co, Amsteldyk, Antwerp
13[illegible] s, Arthur G Dunn, Excalibur, Beirut
320 bgs, Otto Gerdau & Co, Excalibur, Beirut
67 bgs, Balex Co, Excalibur, Beirut
80 bgs, Joensson & Cross, Oluf Maersk, Cochin
240 bgs, Volkart Bros, Inc, Oluf Maersk, Cochin
160 bgs, Mincing Trading Co, Oluf Maersk, Cochin
240 bgs, Otto Gerdau Co, Oluf Maersk, Cochin
160 bgs, Superintendence Co, Oluf Maersk, Cochin
240 bgs, Volkart Bros, Inc, Oluf Maersk, Alleppey
240 bgs, Joensson & Cross, Oluf Maersk, Alleppey
160 bgs, Arthur G Dunn, Oluf Maersk, Alleppey
480 bgs, Mincing Trading Co, Oluf Maersk, Alleppey
240 bgs, Bank of Montreal, Oluf Maersk, Alleppey
340 bgs, Steel Traveler, Alleppey
PERFUMERY, SYNTHETIC—11 cs, Firmenich & Co, Sobieski, Genoa
PERU BALSAM—5 dms, Fritzsche Bros, Inc, Cape Avinof, Cristobal
PETITGRAIN OIL—55 dms, Agnete, Buenos Aires
6 dms, Bush Aromatics Co, Granadero, Buenos Aires
PETROLEUM, CRUDE—130,014 bbls, California Refining Co, Fort Mims, Ras Tanura
PHARMACEUTICALS—5 cs, Hoffmann-La Roche Co, Amsteldyk, Antwerp
PIMENTO LEAF OIL—3 dms, Dodge & Olcott, Inc, Cape Avinof, Kingston
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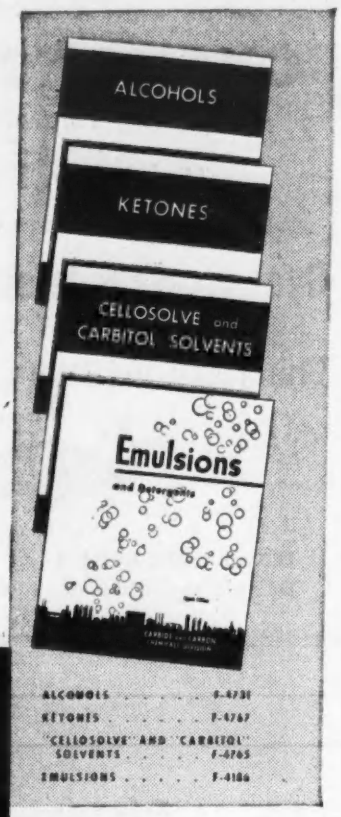
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# Botanical Drugs, Spices, Gums

Scarcity of ergot at advancing prices; lobelia herb in small supply at rising quotations; easing of ginger root, moderately at all points; cheaper goldenseal in a narrow market; a seasonal and further drop in senega prices; constantly advancing prices in vanilla beans at the origins, plus higher spot quotations on Mexican beans; constant shrinkage in the supply of Moroccan coriander seed, forcing spot values upward again; and a strong, active, advancing market on all kinds of clove spice—such were the features last week in the botanical market. The market index advanced 4.0 points to 195.2.

Less prominent features included a strengthened situation in Indian celery seed, the near eclipse of spot Mexican allspice; the tightening of Chinese and Mexican anise at an advance in price; and some unsettlement in mustard seeds and in a few cassias.

Pepper was in sensitive position and rising prices accompanied the expectation of an early increase in the India export tax, machinery for the administration is ready at the origin. In vanilla beans, a Mexican crop of about 50 tons seemed to assure higher prices, especially since a smaller crop of French beans was in strong hands who have raised prices steadily. No relief from the ergot shortage was thought likely until normality returns to production in Spain and Portugal. And lobelia herb as well as leaf appeared to be assured of a high price position at least until 1950 collection is obtained in volume at a much lower cost. The market for goldenseal could scarcely be narrower; it was favorable only to buyers and they had no urge to profit thereby. Ginger root appeared likely to continue downward in price but restoration of normal quotations on this year's crops did not seem likely.

## Balsams

**Peru**—A firm but routine market prevailed last week and sellers ranged prices between 90c. and $1.10 per pound. Replacement advices showed no unsettlement at the origin.

**Tolu** — Although most dealers wanted more than $2.50 per pound, goods were still available thereat last week. The range, varying according to seller and quality of material, touched $2.75.

## Barks

**Cocillana**—The consuming market has not died yet; a little demand was reported last week, but the end of the season was in sight. Prices remained mainly steady at 16c. to 17c. per pound.

**Elm**—Some expected export interest to develop in the not distant future but at the moment the market remained active only along jobbing lines. Prices held steadily.

**Sassafras**—Demand showed added signs of revival against the major requirements usually incident to the Spring months. Dealers at most points indicated that the quality of bark available this Spring exceeds the rather inferior holdings in store a year ago.

## Beans

**Vanilla**—Spot Bourbon beans were quoted $4.50 to $4.75 per pound, but for the most part importers were not disposed to press sales thereat. The reason for that was the fact that latest replacement costs showed a rise of about 75c. per kilo and the cost to import is gradually reaching the point where the $4.50 level likely will have to be abandoned. Arrivals last week totaled about 2,500 cases, practically all of which was sold. Mexican beans were higher at $7.50 to $7.75 for whole and $6.25 to $6.50 for cuts and very little was actually on spot. Since the total Mexican crop was only about 50 tons this year, not very much is expected to arrive during the current and succeeding month.

## Flowers

**Chamomile**—Supply of both Hungarian and Roman flowers was more than sufficient to meet the current volume of consumer request. Prices at all points were virtually steady and the tendency toward shading appeared but seldom last week.

**Saffron** — The most notable feature of the market on Spanish material was the absence of local selling pressure.

## Gums

**Myrrh**—Passing of the season of largest consumption tended to reduce trading to a low level of jobbing needs. Pricewise, the market remained very steady at all points.

**Sandarac**—The high price seemed likely to continue until such time as collection of a normal crop be permitted in the primary market. High prices on spot have not improved consumer interest.

## Herbs and Leaves

**Lobelia**—Either herb or leaf was a difficult article to obtain and though the current call was not of important size, nothing in the least suggestive of an easing of prices could be found locally. A change in that aspect of the market awaits new crop collections and the prices to be paid therefore. Herb was quoted around 85c. to 90c. per pound; leaf, 90c. to 95c.

**Sage**—The price of Dalmatian material remained strong and though $1.15 was quoted, it was not certain that a firm order with a guaranteed prompt delivery out of spot stocks could be placed under $1.20. As high as $1.25 was said to have been done.

## Miscellaneous

**Ergot**—It was difficult to determine the actual market, mainly because very little is held on spot and most quarters lack stocks. It was clear that nothing was available under $4.25 per pound and it might be inferred from local comment that around $4.50 to $5 might have to be paid. The uttermost care was exercised in taking business and new customers stood no chance of getting deliveries. The whole situation will not dissolve into normality earlier than the production of a normal crop in Spain and Portugal.

**Grains of Paradise** — The high and

*For Late Market Developments, See Page 4*

## *Market Trends*

**Prices Advanced**

*Drugs*

Ergot, 75c. per lb.
Lobelia herb, 2c. per lb.

*Other Articles*

Allspice, Mexican, ½c. per lb.
Anise, Chinese, ¾c. per lb.
Mexican, ¼c. per lb.
Celery seed, Indian, futures, ½c. per lb.
Clove, Madagascar, spot, ½c. per lb.
Zanzibar, spot, ½c. per lb.
futures, 3½c. per lb.
Coriander seed, Moroccan, ¼c. per lb.
Cumin seed, Syrian, ½c. per lb.
Paprika, Chilean, 1c. per lb.
Spanish, 1c. per lb.
Pepper, black, spot, 3c. per lb.
Feb. arrival, 2c. per lb.
Mar. shipment, 2c. per lb.
Mar.-May shipment, 3c. per lb.
white, 15c. per lb.
Poppy seed, Dutch, ¼c. per lb.
Sesame seed, China, hulled, ½c. per lb.
Vanilla beans, Mexican, whole, 50c. per lb.
cuts, 25c. per lb.

**Prices Reduced**

*Drugs*

Ginger root, African, 2c. per lb.
Jamaica, No. 3, 4c. per lb.
Goldenseal root, 20c. per lb.
Senega root, 5c. per lb.

*Other Articles*

Cassia, China, Canton, rolls, select, ¼c. per lb.
Yunnan rolls, ½c. per lb.
broken, ½c. per lb.
Saigon, all thin, 1c. per lb.
Dill seed, natural, ½c. per lb.
Laurel leaves, Yugoslavian, ½c. per lb.
Mustard seed, English yellow, ½c. per lb.
Dutch yellow, ½c. per lb.
Montana brown, ¼c. per lb.
yellow, 1c. per lb.
Washington, yellow, 1c. per lb.
Sesame seed, Nicaragua, hulled, ½c. per lb.

**Comparative Price Indexes**

(100—August 1, 1914)

| Last week | Prev. week | Last month | Dec. 30, 1949 | Mar. 4, 1949 |
|---|---|---|---|---|
| 195.2 | 191.2 | 191.3 | 193.6 | 194.6 |

(*For Current Prices see Page 9*)

## *Imports Detained by FDA*

**Week Ended February 24**

**New York**

Almond, bitter, 20 bags: hydrocyanic acid.
Apricot kernels, bitter, 469 bags: hydrocyanic acid.
Buchu leaves, 6 bales: filthy.
Cassia, 257 bales: filthy.
Celery seed, 136 bags: dead insects.
Chillies, 410 bags: live and dead insects; filthy.
Dandelion root, 20 bales: filthy.
Dill seed, 34 bags: filthy.
Fennel seed, 198 bags: filthy.
Karaya gum, 200 bags: filthy.
Kola nuts, 86 bags: live insects; insect filth, and insect bored.
Mace, 19 cases: filthy.
Nutmegs, 105 bags: moldy and wormy.
Oreganum leaves, 59 bags: filthy.
Pepper, black, 463 bags: moldy and insect bored.
Poppy seed, 50 bags: filthy.
Sage, 100 bales: filthy.


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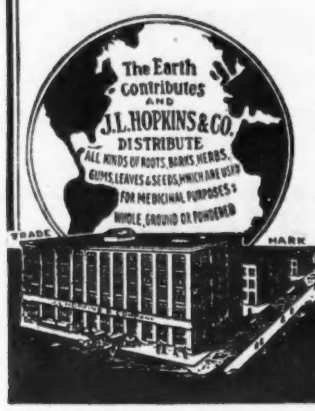


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strong market was based on low supply and a hazy situation with respect to further arrivals on spot. Quotations ranged 68c. to 75c. per pound.

## Roots

**Dandelion** — The detention of 20 bales on arrival did nothing to curb the stronger undertone governing prices of late. Quotations were readily supported at 40c. to 45c. per pound and offerings were mainly conservative in size. Because of the poor keeping properties, few wish materially to increase inventories through purchase abroad where, incidentally, values have shown considerable strength of late.

**Galangal** — The China situation was without major improvement but Hong Kong appeared to be still able to make dispatches of root from time to time. The most recent arrival totaled 100 bales for the account of a single importer.

**Golden Seal**—Tested root was reported available at $3 to $3.40 per pound and powder was held at $3.50 to $4. Untested root was available for substantially less without attracting much consumer interest. Only jobbing business prevailed locally.

**Mandrake**—The country still found it difficult to attract buyers even at the lower price levels at which dealers there have indicated a willingness to book business. However, the carryover wont be so large as to be a substantial depressent on prices when new collection gets under way.

**Senega** — A trifle more was clipped from spot prices and a dull market prevailed last week at $1.55 to $1.65 per pound. With values showing a downward trend, buying interest has been eclipsed by the determination to await the full development of the decline.

**Turmeric**—Jamaican root was purely nominal at a higher price of 10½c. per pound. Hardly any Alleppey root was in store and a nominal quotation was 38c. Madras root was 18c. to 19c.

## Seeds

**Anise** — Though quotations at 15c. on Chinese seed were noted, attempts to buy found most holders asking 16c. and under actual selling 15¾c. was paid last week. Mexican seed was up to 15¾c. to 16c. under identical conditions. Some Turkish was quoted at 15c. to 15½c.

**Celery**—Spot prices were cheaper than source quotations, the comparison on India seed being 26c. to 27c. for spot and 26½c. to 27c. for futures. French seed held firm at 30c. to 31c..

**Coriander**—Spot stocks have shrunken sharply and the shortage alone would stimulate further price developments. In addition, source prices were virtually strong. Morocco seed on spot was higher at 10¼c. to 10½c. per pound.

**Cumin**—Syrian seed was up sharply to 17c. to 17½c. per pound. Moroccan and Iranian seed lacked development but prices were firm.

**Mustard**—Although contract prices on 1950 production of Montana yellow and oriental seed have been named, booking of forward deliveries seemed to lag. However, direct advices from the origin suggested that farmers' and dealers' views on oriental had been raised to about 8c. to 8½c. Brown at the source was down to 5¼c. to 5½c. and the yellow was 10c. to 10½c. Good quality English yellow was cheaper at 11½c. to 12c. Washington yellow was shaded to 11c. to 11½c.

**Poppy**—Dutch seed returned to 18c. to 18½c. per pound and the Polish article was firmly entrenched at 16c. to 16½c.

**Sesame**—Hulled Nicaragua was available at a decline to 21c. to 25c. per pound, depending on quality. Hulled Chinese was up to 17½c. to 18c.

## Spices

**Allspice**—Mexican material seemed unavailable on spot. A nominal price at 20c. was reported.

**Cassia** — Selected Canton rolls were shaded to 12c. to 12½c. per pound. And the all thin Saigon item was lowered to 42c. to 43c. Unscraped Yunnan rolls were lower at 14c. to 14½c. and the broken Yunnan was 13½c. to 14c.

**Clove**—Cables came in very high last midweek. Zanzibars were mainly 24c. per pound on a c & f basis and on a landed basis would probably bring about 25c. to 26c. Spot Zanzibars were much under shipment goods, the price being 22c. to 23c. The same was quoted on Madagascars. A better than fair spot holding existed, according to report.

A report lately issued by the Zanzibar Clove Growers' Association to cover ex-

—Continued on page 60

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# Essential Oils, Other Aromatics

Hemlock and spruce oils were new commers to the group of essential oils that had featured the market during the past several weeks. The rise in Algerian geranium was extended and cedarleaf moved up another notch. The sole declines were in prices on angelica root and abies siberica oils, a purely competitive action. The market index rose 0.1 point to 125.1.

Although the changes did not affect the basic price position of the following oils, some shifting did take place in individual sellers' price views on cananga, cassia, citronella from Ceylon and the Java-type oil from nearer home, dillweed, and Bourbon vetiver. Most changes were advances which all competition did not recognize or follow.

Reports suggested that although the United States of Indonesia may be expected to become more tranquil as time passes, it would be folly to expect the political and military situation so substantially to improve production of citronella, patchouli, cananga, vetiver, palmarosa, etc., that normality of exports will be achieved much sooner than a year from now.

Another uncertainty in the Far East was Formosa, from which ordinarily comes the world supply of camphor oil. Interruption of exports is expected if and when Red China invades the island, last stronghold of the Chinese Nationalist government. Ocotea cymbarum tends to become a more important oil for that reason, as evidenced by the late and substantial price advances.

Domestic oils showed some gains in strength; particularly in dillweed, peppermint, and spearmint oils. All were showing the effect of a dwindling supply and the concentration of remaining supplies in strong hands. Prices did not change last week but they tended upward.

## Market Trends

**Prices Advanced**

Cedarleaf oil, 5c. per lb.
Geranium oil, Algerian, $1.25 per lb.
Hemlock oil, 10c. per lb.
Spruce oil, 10c. per lb.

**Prices Reduced**

Abies siberica oil, 25c. per lb.
Angelica root oil, $10 per lb.

**Comparative Price Indexes**

(100—August 1, 1914)

| Last week | Prev. week | Last month | Dec. 30, 1949 | Mar. 4, 1949 |
|---|---|---|---|---|
| 125.1 | 125.0 | 113.1 | 102.8 | 103.6 |

(For Current Prices see Page 9)

## Essential Oils

**Abies Siberica**—Demand has not been sufficient to so strengthen the market that it could maintain recent local prices. The call was still routine last week and quotations were lower at $3.50 per pound.

**Amyris**—A limited quantity was added to the spot supply by the arrival of 9 drums from Port au Prince, Haiti. Most sellers were reported with a better than fair reserve that well protected present and future manufacturing needs.

**Angelica**—Root oil once again became lower, minimum spot quotations being $105 per pound in one quarter. Others started prices at $115 and the quotations went as high as $190. Seed oil remained quotably unchanged at $80 to $100 per pound.

**Anise**—Strength still dominated spot prices and strength seemed likely to continue the dominant feature of the market for an indefinite period of time. Replacements have been offered sparingly and, for some time back, almost even with the spot prices of some suppliers. Quotations ranged $1.35 to $1.70 per pound.

**Apricot Kernel**—Steadiness prevailed last week so far as prices were concerned; then held well at 44c. to 60c. per pound, depending on seller and quantity. Stocks were conservative.

**Bergamot**—Quotations remained exceptionally steady at $4.40 to $5 per pound. Most dealers quoted no lower than $4.50 and in view of the replacement prices, it seemed unlikely that they would be able to do less that that, profitably. Demand was fairly good, though in some measure it was rather spotty most of the time.

**Bois de Rose**—Demand took up larger quantities last week, giving added strength to an already firm spot position. Quotations were firmly held at $3 to $3.60 per pound, a position warranted by what was last paid for shipment material at the origin.

**Camphor**—The political situation in Formosa made it virtually certain that normality in commerce would be most unlikely. The island will be under the threat of Red China invasion for an indefinite period and such a danger will not stimulate the production of export merchandise. The spot market has begun to strengthen and higher prices were a general expectation. The most recent arrival from Keelung, Formosa, totaled 72 drums.

**Cananga**—One quarter had a disposition to raise quotations but the directions recently naming minimum quotations continued the schedule thereat unchanged. However, the market had no weakness because of the situation at the origin where normal commerce had yet to be achieved.

**Cardamom**—More stability has come to spot quotations, according to local report. At least, quotations were reduced no further but it may be said that some recent purchases of raw material had been made at lower than recently cabled quotations. Limited demand was supplied at $50 to $80 per pound.

**Cassia**—Price stability was undisturbed. And in view of the continued difficulties incident to the Red occupation of China, local suppliers were more disposed to look for somewhat higher than lower spot quotations. Quotations ranged $2.05 to $3 per pound with numerous dealers not doing under $2.20.

**Cedarleaf**—Reports indicated that a rise in replacement cost had taken place. The spot market was higher at $1.75 per pound as minimum and with upwards of $1.95 being asked by those who reflected fully their increase in the cost to replace.

**Celery**—Though raw material has been generally stronger in late weeks, oil has not reflected the development. It was still unchanged at $15 to $18.50 per pound, according to seller and quantity.

**Citronella**—The disposition to make Ceylon oil lowest at $1.20 per pound spread to other dealers last week. However, lowest on spot remained at $1.10, quoted in the same direction for several weeks. One dealer adopted $2.25 as his minimum. Java type held steady at $1.75 to $2.10, though one supplier did raise quotes to $1.85. Over a substantial future of time, market prospects with respect to genuine Java oil were said to have been improved by the birth of the new Indonesian republic. Real progress may take a year, it was said, because present production in Java is negligible.

**Clove**—USP oil ranged $1.45 to $1.60 per pound. Broken down into the type of raw spice used, $1.45 was quoted on Zanzibar bud oil and $1.50 was named on oil from Madagascar buds. The spice market developed little change. However, some interest attached to the fact that out of a total of 9,384,060 pounds of spice exported from Zanzibar during the three months of July-September, both North and South America combined took but 97,880 pounds, or only 1.04 percent of the whole. India and the Straits Settlement combined accounted for 80.25 percent of the total exported. The figures appeared in the most recent report of the Zanzibar Clove Growers Association.

**Dillweed**—There might be a trifle of spot oil still to be obtained at $6 per pound, but the market was more accurately pictured by the quotations, $6.50 to $7.10, and all suppliers at whatever price admitted that when picklers begin to buy this next Spring, they won't find much unsold oil available.

**Geranium**—The price on Algerian oil continued to climb. At the close of last week, the market was $14.75 to $16.25 per pound. This rise was laid directly to the fact that high prices and demand have reduced spot stocks of Bourbon oil to a very low level and more goods can not be readily bought in the French islands. Bourbon oil remained at $17 to $20, but such a price merely encouraged increased interest in Algerian and Turkish oils.

**Ginger**—Raw material prices have turned moderately downward. Most recently received cables quoting on new crops carried lower prices but the local feeling of spice importers was that the decline won't run very far unless the news with respect to the size of new crops shall prove to be inaccurate. Oil quotations held to $23 to $28 per pound and little interest was shown by buyers.

**Hemlock**—Stocks seemed to be far less than many had supposed, and while some dealers did not offer, others with a limited stock quoted the higher level of $1.75 per pound.

**Lemon**—Numerous dealers stressed higher cables from Italy in reporting a further rise in their spot quotations on Italian oil. However, $2.85 per pound could still be done last week as compared with the

For Late Market Developments, See Page 4

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minimum of $3.10 that was actually quoted. The range, according to quality, was to $5. Domestic oil remained very steady at $2.95 to $3.25 per pound, with most local dealers in California material reporting some gain in consumer takings. The opinion was that higher prices on domestic oil may come as the result of the higher price of fruit, unfavorable growing conditions, and ever increasing export demand.

**Lime**—Further price advance in distilled oil did not come. However, the late rise was firmly maintained by the presence of sustained consuming requirements and a decrease in local competition.

**Orange**—Demand for all varieties of oil was fair to improved. Interest in California oil gained moderately and sales of Floridian oil rose conservatively. Messina oil seemed firmer in most directions. Because domestic fruit is commanding high prices and because growing conditions have been mainly unfavorable, higher prices may result, especially if export interest shall rise.

**Patchouli**—Prices were unchanged but they were firm on the basis of the at present insignificant supply. However, quotations at $22 to $25.50 per pound effectively curb demand.

**Rose**—The break in diplomatic relations with Bulgaria would appear to make a shortage of Bulgarian oil inevitable if long continued. It could be that some oil might get here through the Soviet Union but direct importation by local agents of the Bulgarian producers would seem to be a thing of the past.

As this contretemps developed, it was learned that a higher concentrated natural oil developed by a Berlin University scientist was seeking a market in this country. Its specific gravity is 0.889 at 15 degrees C, and 0.884 at 30 degrees. One claim for the material was the absence of pelargonic acid, the presence of which is believed to account for the instability of Bulgarian oil. Just what this German product may be remains to be developed, but it was said last week that some favorable reports had been made by at least one large perfumer.

**Rue**—At a time when several dealers were advancing prices, a quarter that had named $5 per pound when the minimum quotation had been $2.75 actually reduced prices to $2.75. Against this were those who asserted that on the basis of replacement cost, their price for spot goods was not less than $3.50. Therefore, the spot range appeared to be $2.75 to $3.50, as to seller.

**Sage**—The situation in Dalmatian oil was slightly mixed. The market ranged $4.50 to $5.50 per pound. Two dealers named $5.25 and $5.50 respectively and cited the scarcity of oil and the high cost of Dalmatian sage as justification. Only one quarter suggested a market at $4.50. Further development of supply and demand will be needed to reveal the true position.

**Spruce**—Spot quotations were slightly higher at $1.75 to $2.75 per pound, and supply was believed to be smaller than had seemed to be the case during the period of limited demand. A firmer tone was said to reflect a similar situation at the origin.

**Vetiver**—Information in hand was to the effect that an absence of replacement offerings had developed. This tended to strengthen the market, and although it was possible to get some Bourbon oil at $13.25, $13.50 and $14.50 per pound, some wanted as much as $18.50 and turned down orders at less money.

## Aromatic Chemicals

**Anethol**—A revival of broader-guaged demand was reported and volume was more than sufficient to maintain the market at a relatively strong position. However, over the long term view, sellers expected a recession of the recently heavy movement.

**Anisic Aldehyde**—Demand continued to be very good, though it has shrunken in some measure from the great bulge caused by the sudden expansion in manufacture of antihistaminics. The market remained basically very firm and was not overstocked.

**Geraniol**—Some looked for a gain in demand for this product because of a lessening supply of some natural products for which the product can double to a certain extent.

## *Botanical Drugs*

*—Continued from page 58*

ports from that island to the world during the three month period of July through September gave the quantities and destination as follows:—

| | Bales | Pounds | Percent |
|---|---|---|---|
| India | 34,008 | 4,761,150 | 50.74 |
| Straits Settlements | 19,783 | 1,769,630 | 29.51 |
| United Kingdom | 4,293 | 601,020 | 6.40 |
| Pakistan | 3,640 | 509,585 | 5.43 |
| Aden | 1,519 | 212,653 | 2.27 |
| Continental Europe | 1,220 | 170,800 | 1.82 |
| America, N. and S. | 699 | 97,880 | 1.04 |
| Dutch East Indies | 641 | 89,725 | .96 |
| Australia | 518 | 72,520 | .77 |
| West Africa | 260 | 36,400 | .39 |
| South Africa | 160 | 22,400 | .24 |
| Sudan | 125 | 17,500 | .18 |
| East Africa | 85 | 11,935 | .13 |
| New Zealand | 38 | 5,220 | .06 |
| Ethiopia | 32 | 4,440 | .05 |
| Fiji Islands | 8 | 1,120 | .01 |
| Total | 67,029 | 9,384,060 | 100.00 |

Of the total exports during the quarter the association supplied 1,398,602 pounds under the terms of the Clove (Minimum Percentage of Exported Cloves) Order, 1948, whereby 15 pounds of every 100 pounds exported must be purchased from the association.

Clove duty was unchanged at Shs. 17.00 per 100 pounds for the quarter under review, but as from October 1, 1949, this was increased by Shs. 3.00 per 100 pounds due to a higher valuation assessed for cloves, in accordance with the terms of the Customs Tariff Decree.

**Ginger** — Prices tended to soften and even weaken but reliable opinion did not include the idea that the declines would finally bring a return of normality to prices. African root on spot was down to 44c. to 45c. per pound and report said 43c. would be accepted in some quarters. No. 3 Jamaica on spot was down to 44c. to 45c., a reflection of the fact that March-April shipments could be had at 42c. to

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43c. The No. 1 and No. 2 qualities were available only in token quantities here.

**Pepper** — Black pepper continued to show basic strength at all points. Less pepper than world requirements seemed to exist. Information from India said the machinery to put the higher export tax into effect had been perfected and only the official order so to do was in abeyance. Just how much the rise will be was not known here but all contracts for future arrivals contained the provision that any increase in the India export tax was for the account of buyer.

Quotations at the end of the week were:— White pepper, $2.45 to $2.50 per pound. Black pepper, spot, $1.47 to $1.48 futures, $1.47 to $1.48 in whatever position.

## *Current Prices*

*—Continued from page 33*

| | | | |
|---|---|---|---|
| Whiting, limestone, dry-grd., 99.5%, 325 mesh, bgs., c.l., works. | ton. | 6.00 | -10.00 |
| smaller lots, works | ton. | 6.50 | -15.00 |
| wet-grd., bgs., c.l., works | ton. | 16.00 | -30.00 |
| smaller lots, works | ton. | 21.00 | -35.00 |
| Paris white, bgs., c.l. | ton. | 24.00 | -31.00 |
| l.c.l. whse. | ton. | 25.00 | -40.00 |
| Precipitated, bgs., c.l. | ton. | 18.00 | -20.00 |
| l.c.l. | ton. | 25 00 | -35.00 |
| Wild cherry bark, thick, natural, bls | lb. | .06 | .07 |
| rossed, bls | lb. | No prices. | |
| thin, natural, bls. | lb. | .13½ | .16 |
| rossed, bls. | lb. | .17 | .18 |
| Wild indigo root, bls. | lb. | .30 | .31 |
| Wild yam root, bls. | lb | 16 | 17 |
| Witch hazel leaves, bls. | lb. | .25 - | .27 |
| Woodflour, 40 mesh, bulk, f. t. works, East. | ton. | 32.00 - | — |
| l.c.l., same basis | ton. | 40.00 - | — |
| 60 mesh, bulk, c.l., same basis. | ton. | 37.00 - | — |
| l.c.l., same basis | ton. | 45.00 - | — |
| 80-100 mesh, bulk, c.l., same basis | ton. | 40.00 | -45.00 |
| l.c.l., same basis | ton. | 50.00 | -55.00 |
| Woodflour in bgs. extra, returnable | | | |
| Woolfat (see Lanolin). | | | |
| Wormseed, American, bgs. | lb. | .13 | .14 |
| Levant, bgs | lb | 4.15 | 4.25 |
| Wormwood leaves, bls. | lb. | .35 - | .45 |

## X

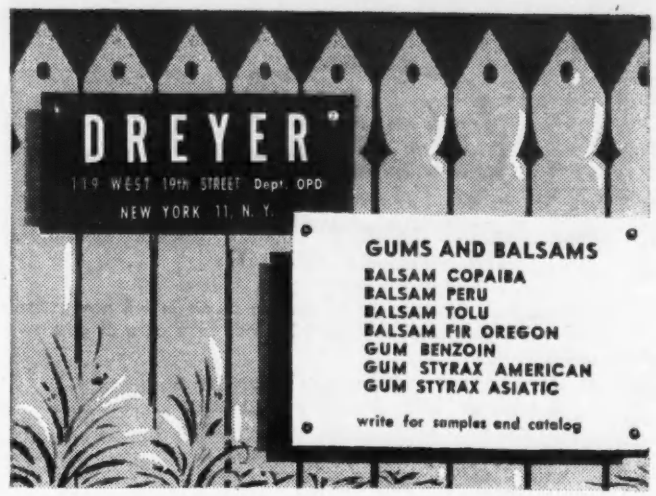
| | | | |
|---|---|---|---|
| Xanthorrhiza root, bls | lb | .28 | .30 |
| Xylene (see Xylol). | | | |
| Xylenol, 5° 7° ret. dms., c.l., works, frt. equald | lb. | 21¾ - | — |
| l.c.l., same basis | lb. | 22¼ - | — |
| tanks, same basis | lb. | .21 - | — |
| 45°, dms., l.c.l., frt. equald | lb. | .24 - | — |
| fractions, over 7° C, dms., c.l., same basis | gal. | .91 - | — |
| l.c.l., same basis | gal. | .94 - | — |
| tanks, same basis | gal. | .89 - | — |
| Meta fraction, over 7° C, dms., c.l., same basis | gal. | .96 | — |
| l.c.l., same basis | gal. | .99 | — |
| tanks, same basis | gal. | .85 | — |
| Xylidins, mixed, dms | lb | .45 | .50 |
| Xylol, coaltar, industrial, tanks, works — | | | |
| Bethlehem, Pa. | gal. | .26 | — |
| Birmingham district | gal. | 23¼ - | — |
| Chicago district | gal. | 26½ - | — |
| Cleveland district | gal. | .26 - | — |
| Dangerfield, Tex. | gal | 27 | — |
| Hamilton, Ohio | gal | .25 | — |
| Johnstown, Pa. | gal | 24 | — |
| Lackawanna, N. Y. | gal. | 24 | — |
| Pittsburgh district | gal. | 23 - | — |
| Sparrows Point, Md. | gal. | .26 | — |
| St. Louis, Mo | gal. | 28 | — |
| Syracuse, N. Y. | gal. | 23½ | — |
| Terre Haute, Ind. | gal. | 26 | — |
| Wyandotte, Mich. | gal. | 27 | — |
| Youngstown, Ohio | gal | 23½ | .28 |
| Petroleum, indust., 10°, tanks, works:— | | | |
| Albany, N. Y. | gal | 28 | — |
| Bayonne, N. J. | gal | 28 | — |
| Baytown, Tex. | gal. | 25 | — |
| Chicago, Ill. | gal | 27 | — |
| Detroit, Mich. | gal. | 28 | — |
| Philadelphia, Pa. | gal. | 28 | — |
| Providence, R. I. | gal | 28 - | — |
| Wood River, Ill. | gal | 27 - | — |

## Y

| | | | |
|---|---|---|---|
| Yara, yara, cns. | lb. | 2.00 | 2.25 |
| Yeast brewer's dry, USP, 50 B units, per gram, 100-lb. dms | lb. | .44 | .46 |
| 90 B units, per gram, 100 lb. dms | lb. | .49 | .51 |
| 200 B units, per gram, 100 lb. dms | lb. | .53 | .55 |
| 300 B units, per gram, 100 lb. dms | lb. | .57 | .59 |
| Yellow, barium chromate, CP, bgs., l.c.l., dlvd. N. of Tenn. and N. C., E. of Miss., including Davenport, Minneapolis, Rock Island, St. Louis, St. Paul | lb. | .30¼ - | — |
| Barium chromate yellow price differentials in other States and city zones are those for chrome yellow below. | | | |
| Benzidin, bbls., dlvd. | lb. | 1.60 - | 1.70 |
| Cadmium, CP, all shades, bbls., frt. alld. E. of Rockies | lb. | 2.65 - | — |
| Lithopone, all shades, bbls., frt. alld. E. of Rockies | lb. | .95 - | — |
| Cadmium yellows, Los Angeles and San Francisco, ex whse. l.c. per lb. higher. | | | |
| Chrome, CP, bbls., dlvd. N. Tenn. and N. C. E. of Miss., including Davenport, Minneapolis, Rock apolis, Rock Island | lb. | .25 - | — |
| Dlvd. Ala., Fla., Ga., La. (Shreveport) 1¼c. higher; Miss., N. C., S. C., Tenn., Dallas, Tex., 1¼c. higher; Ft. Worth, Tex. 1½c. higher; El Paso, Tex., 2c. higher; Cedar Rapids, Des Moines, Kansas City, Lincoln, Omaha, St. Joseph, 1.6c. higher dlvd. Pac. Coast; for Denver, Pueblo, Salt Lake City, Wichita prices are equalized with Chicago | | | |
| Hansa, bbls., same basis as chrome | lb. | 1.60 - | 1.70 |
| Primrose, bbls., same basis | lb | 1.90 | 2.10 |
| Iron oxide, natural, bgs., c.l., works | lb | .0141 - | .0250 |
| l.c.l. works | lb | .0166 - | .0275 |
| French type, bgs., c.l. | lb. | .04½ - | — |
| l.c.l. | lb | .04¾ | — |
| Peruvian type, bgs., c.l. | lb | .0185 - | .0210 |
| synth., bgs., c.l. works | lb | .09 | — |
| l.c.l. works | lb | .09¼ | — |
| Mercury oxide, bbls., 1,000 lbs. | lb. | 1.93 - | — |
| smaller lots | lb | 1.95 | — |
| Ocher, American golden, bgs., works | lb | .01¼ | .02¼ |
| Zinc, bbls., same basis as chrome | lb. | .21 - | — |
| Yellow dock root, bls. | lb. | .16 - | .25 |
| Yellow xanthorrhiza (see Xanthorrhiza) | | | |
| Yerba santa leaves, bls. | lb. | .28 - | .30 |
| Yohimbine hydrochloride, vis. | oz. | 3.25 - | 4.00 |

## Z

| | | | |
|---|---|---|---|
| Zein, bgs., 36,000 lbs., works | lb. | .30 | — |
| 1,000 lbs. to 36,000 lbs., works | lb. | .32 | — |
| smaller lots, works | lb. | .35 | — |
| Zinc acetate, tech., bbls., dms | lb. | .26¼ - | — |
| NF, dms. | lb | .38 | — |
| Arsenite, bgs., c.l., frt. alld. E. of Rockies | lb. | No stocks. | |
| l.c.l., same basis | lb | No stocks. | |
| Borate, bgs., c.l., ship't pt., frt. alld., E. | lb. | .15½ - | — |
| l.c.l., ship't pt., frt. alld. E. | lb. | .16 - | — |
| Carbonate, purified, powd., dms. | lb. | .26 | — |
| tech., rubber makers', bgs., works | lb. | .10¾ - | .11¼ |
| precipitated, powd., dms. | lb. | .26 | — |
| Chloride, tech., fused, dms., c.l., works 100 lbs. | | 7.00 | — |
| l.c.l., works 100 lbs. | | 7.40 - | — |
| gran., bbls., c.l., works. 100 lbs. | | 7.75 - | — |
| l.c.l., works 100 lbs. | | 8.15 - | — |
| solution, 50%, dms., c.l., works. 100 lbs. | | 3.90 - | — |
| l.c.l., works 100 lbs. | | 4.50 - | — |
| tanks, works 100 lbs. | | 3.25 - | — |
| NF, gran., dms | lb. | .42 | — |
| Chromate (see Yellow, zinc). | | | |
| Cyanide, kgs., works | lb. | .38 | .41 |
| Dust, bbls., c.l., works | lb. | .1225 - | — |
| dlvd. | lb. | .1250 - | — |
| l.c.l., works | lb. | .1260 - | .1325 |
| Fluoride, bbls., works | lb. | .40 - | — |
| Hydrosulphite, dms., c.l., frt. alld. | lb. | .17¼ - | — |
| l.c.l. | lb. | .17¾ - | .19¾ |
| Iodide, NF, jars | lb | 4.85 | — |
| Laurate, bbls | lb. | .45 | .46 |
| Linoleate, solid, 9½%, bbls. | lb. | .42½ - | — |
| Metal, slabs, E. St. Louis | lb. | .09¾ - | — |
| Naphthenate, liquid, 8% Zn., frt. alld. | lb. | .20¾ - | — |
| 10% Zn. dms., frt. alld. | lb. | .25¼ - | — |
| Oleate, fused, bbls. | lb. | .36 - | — |
| Oxide, pigment, dom., acicular, bgs., c.l., ship't point, frt. alld | lb. | .11 - | — |
| l.c.l., works | lb. | .11¼ - | — |
| American process, com'l. lead-free, bgs., c.l., ship't point, frt. alld | lb. | .11 - | — |
| l.c.l., works | lb. | .11¼ - | — |
| leaded, 5%, bgs., c.l., ship't point, frt. alld | lb. | .11 - | — |
| l.c.l., works | lb. | .11¼ - | — |
| 35%, bgs., c.l., ship't point, frt. alld | lb. | .11¾ - | — |
| l.c.l., works | lb. | .12 - | — |
| 50%, bgs., c.l., ship't point, frt. alld | lb. | .12⅛ - | — |
| l.c.l., works | lb. | .12⅜ - | — |
| French process, com'l, lead-free, bgs., c.l., ship't point, frt. alld | lb. | .13¼ - | — |
| l.c.l., works | lb. | .13½ - | — |
| green seal, bgs., c.l., ship't point, frt. alld | lb. | .12¾ - | — |
| l.c.l., works | lb. | .13 - | — |
| red seal, bgs., c.l., ship't point, frt. alld | lb. | .12¼ - | — |
| l.c.l., works | lb. | .12½ - | — |
| white seal, bgs., c.l., ship't point, frt. alld | lb. | .13¼ - | — |
| l.c.l., works | lb. | .13½ | — |
| USP, cns., c.l., ship't point, frt. alld | lb. | .14½ - | — |
| l.c.l., same basis | lb. | .14½ - | — |
| Zinc oxide Pac. coast prices, etc., higher; bbl. prices ¼c. higher than bgs. | | | |
| Thionosulphonate, NF, gran., bbls., dms | lb. | .33 | .34 |
| powd., bbls | lb. | .36 | .37 |
| Resinate, fused, 1% Zn, dms., frt. alld. | lb. | .20 | — |
| precip., dms., frt. alld | lb | .22 | — |
| Silicofluoride, bbls., works | lb. | .10 - | .10½ |
| Stearate, tech., USP, cns., c.l., lb. | | .34 - | — |
| ton lots | lb. | .35 - | — |
| less ton lots | lb. | .36 - | — |
| Sulphate, cryst., 22% Zn, bgs., c.l., works, frt. alld 100 lbs. | | 4.55 - | — |
| l.c.l., same basis 100 lbs. | | 4.95 - | — |
| flake, 25½%, Zn, bgs., c.l., works 100 lbs. | | 4.50 - | — |
| l.c.l., works 100 lbs. | | 4.90 - | — |
| powd., 36% Zn, bgs., c.l., dlvd., same basis 100 lbs. | | 7.00 - | 7.40 |
| l.c.l., same basis 100 lbs. | | 7.40 - | 7.75 |
| Zinc sulphate in bbls. 40c. higher | | | |
| USP, gran., dms | lb. | .22 | .22½ |
| sulphide, pure, bgs., ca., frt. alld. | lb. | .13¼ - | — |
| l.c.l., works | lb. | .13½ - | — |
| Barium pigment, bgs., c.l., dlvd. | lb. | .08 - | — |
| l.c.l., works | lb. | .08¼ - | — |
| Calcium, pigment, bgs., c.l., dlvd. | lb. | .08 - | — |
| l.c.l., works | lb. | .08¼ - | — |
| Luminescent pigment, frt. alld. | lb. | 1.00 - | 3.00 |
| Magnesium pigment, bgs., c.l., dlvd. | lb. | .08 - | — |
| l.c.l., dlvd | lb. | .08¼ - | — |
| Zinc sulphide and pigment, Pac. coast prices ¾c. higher; bbl. prices ¼c. higher than bgs. | | | |
| Yellow (see Yellow, zinc) | | | |
| Zinc-ammonium chloride, bgs., c.l., works 100 lbs. | | 7.00 - | — |
| l.c.l., works 100 lbs. | | 7.40 - | — |
| Zinc-cadmium sulphide, fluorescent, cns., frt. alld | lb. | 2.00 | 2.80 |
| Zinc-calcium resinate, dms., c.l., works | lb. | .1150 - | .1360 |
| l.c.l., same basis | lb. | .1220 - | .14 |
| Zinc-formaldehyde sulphoxalate, basic, dms., works | lb. | .21½ - | — |
| normal, dms., works | lb. | .43 - | — |
| Zircon (see Zirconium silicate). | | | |
| Zirconium acetate, 13% sol. $ZrO_2$, bbls., works | lb. | .21¼ - | — |
| Carbonate, basic, cake, bbls., works | lb. | .30½ - | — |
| Hydride, cns., works | lb | 7.00 - | — |
| Nitrate, dms., works | lb. | 1.75 - | — |
| Oxide, 98½-99% white, grd., bbls. or bags, works | lb. | 1.50 - | — |
| lump, electric-fused, bgs., c.l., works | lb. | .44 - | — |
| 5 tons, works | lb. | .44½ - | — |
| 1 ton or less, works | lb. | .45 | .48 |
| milled, electric-fused, bgs., c.l., works | lb. | .59 - | — |
| 5 tons, works | lb. | .59½ - | — |
| 1 ton or less, works | lb. | .60 | .63 |
| Oxychloride, cryst., cns., 5 tons, works | lb. | .29½ - | — |
| Silicate, granular, bgs., c.l., works | lb. | .03¼ - | .03¾ |
| 10 tons, works | lb. | .03½ - | .04 |
| 5 tons, works | lb. | .04 - | — |
| 1 ton or less, works | bl. | .04¼ - | .04¾ |
| milled, bgs., c.l., works | lb | .04¾ - | — |
| 5 tons, works | lb. | .05¼ - | — |
| 1 ton or less works | lb | .05¾ - | .06¾ |
| refined, bgs., c.l., works | lb. | .11 | — |
| works | lb. | .11 - | — |
| 5 tons, works | lb. | .11½ - | — |
| 1 ton or less, works | lb | 12 | .16 |
| Sulphate, cryst., cns., c.l., works | lb. | .37½ - | — |
| 5 tons, works | lb. | .38 - | — |
| 1 ton or less, works | lb | .38½ - | .39 |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ESTER GUMS
TERPINEOL
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# Protective Coatings Materials

Price fluctuations were minor and within the range of normalcy during the past week. Turnover was generally good and keeping up to the levels of recent weeks. With Spring not far off, producers were looking toward an upswing in their business and there were some signs already that indicated it was on the way.

Vandyke brown was holding firm after recent advances. Both domestic, standard, and imported casein were higher but the premium-grade domestic was unchanged. Superfine shellac took a dip but the other grades held to their previously noted levels. Chemically isolated soybean was up one-half cent across the board. Synthetic resins were without change as to price but the strike in the coal fields was causing some concern since it was hampering the output of coaltar. Natural gums, generally speaking, were in an unchanged position and while the supply was at good levels for most, the demand could not be said to have reached any great heights.

The demand for earth colors was good on the whole and the supply was strong enough to cause no particular trouble in filling orders. Synthetic iron oxides were in good supply and although the demand was fairly good, it was said that it showed a somewhate erratic tendency. Call for titanium dioxide was running high but the supply was not all that could be desired and here and there there was reported to be a slight delay in the filling of orders. Fillers and extenders were generally without feature. Stocks were at a good level and demand was called reasonably good.

Aluminum laurate, linoleate, naphthenate and oleate were all without changes in price during the period. The demand was not coming in at strong levels but it was about what it had been in the recent past and was causing no particular concern. Supplies were adequate.

## Market Trends

**Prices Advanced**

Casein, domestic, standard, 1¼c. per lb. imported, ¼c. per lb.
Rosin, gum, New York, WW, X, 2c. per 100 lbs.
Soybean protein, chemically isolated, ½c. per lb.

**Prices Reduced**

Shellac, superfine, 1c. per lb.

**Comparative Price Indexes**

(100—August 1, 1914)

| Last week | Prev. week | Last month | Dec. 30, 1949 | Mar. 4, 1949 |
|---|---|---|---|---|
| 171.6 | 171.6 | 184.0 | 196.4 | 235.2 |

(*For Current Prices see Page 9*)

## Prime Pigments

**Aluminum Paste, Powder** — Net shipments of powder, flake and paste in December of 1949 totaled 1,085,000 pounds, the Bureau of Census reported recently. This was well above the total of the preceding month, which amounted to 927,000 pounds. In December of the previous year, however, the total shipments amounted to 1,711,000 pounds. Last year saw lesser total shipments than the previous year. The amount shipped in 1949 was reported to be 14,469,000 pounds, as compared to 16,954,000 pounds for 1948.

**Antimony Oxide**—Although there was a decline of 2¾c. reported in the metal last week, prices of the oxides were firm at their previous levels. They were:—ceramic grade, carload, 23¾c. and less carload, 24¾c. Similar quotations were listed for the paint grade.

**Earth Colors** — Demand was at good levels during the past week and the supply was about adequate. Indian, domestic, pure, was holding at its former levels although there was some slight increase reported in the price of specialty material. Vandyke brown was holding firm at 11c. following recent advances in the listings.

**Lead Pigments**—There were no price changes reported during the past week. The supply was said to be pretty fair on lead oxide, but white leads were not overly ample. Demand held at good levels.

**Lithopone** — The price listings during the past week were reported to be without change and there were no indications that there would be any revisions in the immediate future. Demand was holding up at levels that were generally characterized as fair while the supply was sufficiently plentiful to take care of any normal ordering. In some sections it was reported to be very good.

**Synthetic Iron Oxides** — Supply was ample during the week, with producers reporting no difficulties in satisfying the demands of the market. The call was holding up to fairly good levels on the whole, although there was still an erratic tendency noted in it. As yet there were no concrete signs of a pickup in the call, but with Spring coming on and the normal increase in demand at that season, the industry was looking towards increased turnover.

**Titanium Dioxide** — Demand was running at very high levels during the past week. The best that could be said about supply was that it was running just so-so, and there was still some delay noted in the filling of orders. However, it was not a delay sufficiently long to cause any great hardships. The price listings were holding at their previously noted levels and there were no indications that there would be any further revisions in the immediate days ahead. Prices held at former levels and there were no signs that indicated changes in the immediate future.

**Zinc Oxide** — There was still a slight shortage noted in the supply of the lead-free but as far as the leaded was concerned, producers were able to meet the demands of the market. Prices held at their previously established levels. During the period under review, imports arriving in this country totaled 2,240 bags.

Zinc oxide output in December totaled 10,743 short tons, a decline of 2 percent, the Bureau of Mines reported. Stocks on hand on December 31 were 9,960 tons compared with 10,093 tons on hand on November 30 and 10,153 tons in stock at the beginning of the year. A 10 percent gain in production of lead-free zinc oxide was insufficient to balance a 22 percent loss in output of leaded zinc oxide. Largely responsible for this decline was a 26 percent drop in production of leaded zinc oxide containing 35 percent lead and under. Total shipments of zinc oxide declined 6 percent to the lowest monthly level since May, 1949. American process zinc oxide sales dropped 20 percent whereas shipments of "other" lead-free oxide increased 46 percent. Sales of all grades of leaded zinc oxide declined in December.

## Fillers and Extenders

**Barytes** — Demand was reported to be running at pretty good levels during the week. Supplies were adequate for any normal ordering. The price listings were unchanged.

**Bentonite** — The market was without particular feature during the period under review. There was no fault to be found with supply and demand was holding at reasonably good levels. Prices held as previously established.

**Blanc Fixe**—Demand was at pretty fair levels while supply was adequate to meet it. Prices held. Conditions in general were about what they had been in the recent past, and there were no indications that there would be any considerable changes in the immediate future.

**Calcium Carbonate**—Demand was holding up to about average levels last week. Supplies were ample and prices were without change.

**Fuller's Earth**—General conditions in the market for this item were without particular change during the period under review. The demand was said to be holding up at reasonably good levels, and there was enough of the material available to satisfy it. Prices held at their previously noted levels and there were no indications that there would be any changes in the immediate future.

**Pumice** — Pricewise, the market was without feature last week. Demand was running at about normal levels and the supply was sufficient to fill ordinary needs.

**Slate Flour**—Demand held at a fairly good pitch last week, which was no change from the recent past. Supply was adequate and the price was without change.

## Synthetic Resins

**Coumarone-Indene Resins** — Demand was running at a high point last week. Supplies were tight and, what with the strike on in coal, they were expected to get tighter. One strike after another in steel and coal has seriously hampered the availability of coaltar. Prices were reported to be unchanged.

**Ethylcellulose**—Supplies were in fairly good shape, but were also dependent on coal, and for that reason producers were

*For Late Market Developments, See Page 4*

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watching the strike with more than casual interest. Demand was holding at a steady pace and the price structure was unchanged.

**Methylcellulose**—Demand was reported to be at very good levels for use as a thickening agent for asphalt emulsions, in rubber latex and the pharmaceutical and tableting fields. Supplies were a little bit tight, but not seriously. There were no changes reported in the price structure.

**Polystyrene**—Demand was reported at excellent levels during the period under review. Supplies were tight and the strike in the coal industry was certainly doing nothing to improve their position. Prices, however, were holding at their previously established levels.

## Natural Resins

The market for gums was without particular change last week. The demand, generally speaking, was not great but it was enough to keep material moving. Supplies were about adequate. Elemi was still holding to its previously established price but the call was on the light side. Yacca was not in great demand and the supply was ample and the price was unchanged.

The following gum imports were reported landing in this country during the past week:—yacca, 323 bags from Adelaide; dammar, 130 cases from Bangkok; and copal, 433 baskets from Singapore, 2,001 bags from Matadi, 199 bags from Manila and 785 bags from Antwerp.

**Shellac**—Superfine went down one cent last week, making the new range 43c. to 44c. There were no changes in the other grades. Although there had been no particular briskness in the demand of late, it was said last week that things seemed to be looking up a bit. The Winter was drawing to a close and the coming of Spring was expected to do something to boost sales. In the very early part of the year, turnover was not great but as February came on sales improved and the industry was looking for a continuation of this trend as the weather became warmer. Imported last week were 1,436 bags from Bangkok, 200 bags from Genoa and fifty cases from Genoa.

## Miscellaneous Materials

**Aluminum Laurate**—This item was being held at 38½c. during the past week. The demand was not running to any great pitch. Supply was ample to meet it.

**Aluminum Linoleate**—Demand was not great and supplies were readily available. The material was listed at 39½c.

**Aluminum Naphthanate**—The liquid, 1.7%, was unchanged as to price last week. Supplies were sufficient for the needs of the market but the demand was not especially strong.

**Aluminum Oleate**—The price was without change last week and the demand continued in the usual small, routine way. Supplies were at a high enough level to satisfy any ordinary demand.

**Casein**—Demand for the domestic standard and premium was reported to be running from fair to good during the past week. Some pickup was said to be evident as a result of a firming tendency in Argentina. The dairy industry strike in that country was delaying shipments and that was having its effect on the tone of listings. Supply was called tight. Domestic standard was going for 23¾ to 24½ cents, while the premium was still being held at 24 to 25 cents.

Imported was at 21¼ to 21½ cents. In some directions it was reported that there

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were small odd lots on spot that were being held as high as 25 to 26 cents. The market was considered very firm, with more advances expected. The Winter season is approaching in Argentina and it was expected that this would make supplies even tighter than at present. It was reported during the week that no March shipments could be offered. Demand was reported somewhat better. As one importer put it, buyers were a bit frightened by the conditions developing in Argentina. Imports last week totaled 10,628 bags from Buenos Aires, 500 bags from Montevideo, 4,400 bags from Melbourne and 200 bags from Oslo.

**Glue**—The price structure of bone grades held to previously established levels last week. Supply was sufficient for the demand. There had recently been some reports that demand was picking up a bit. Last week one producer said it could see no reason for a falling off in the call for the next six months.

**Soybean Protein**—The chemically isolated advanced ½c. a pound last week. In 40,000-pound lots the new price became 20½c., in lots of 20,000 pounds it became 20¼c., and in smaller lots there was a range of 20½c. to 24c.

**Synthetic Adhesives**—Consumption of casein glue during December of 1949 was 542,000 pounds, the Bureau of Census reported. In the previous month it was lower at 535,000 pounds. In December of the year before, however, it was down to 477,000 pounds. Soybean glue consumption in December last year was 3,306,000 pounds, which was a gain over the previous month's total of 3,047,000 pounds. During December, 1948, it was 2,701,000 pounds. Phenolic resin glue consumption in the last month of 1949 totaled 2,986,000 pounds, which showed an improvement over the 2,886,000 pounds total of the month before. However, in December of 1948, the consumption was 2,104,000 pounds.

Soybean glue stocks at the end of December, 1949, were 1,384,000 pounds, a decrease from the 1,606,000 pounds total of the preceding month. In December of 1948, the stocks were 1,408,000 pounds. Phenolic resin glue stocks at the end of the month in December, 1949, were 2,065,000 pounds, which compared to 1,919,000 pounds in the previous month. In December of 1948, the stocks totaled 1,664,000 pounds.

## Naval Stores

**Pine Gum**—Prices received by producers for crude pine gum delivered to processing plants during the week ended February 25 averaged $20.82 per standard barrel of 435 pounds, according to the Department of Agriculture. This compares with $21.01 for the previous week.

The twenty-three reporting plants received a total of 7,341 barrels of gum, or 319 barrels per plant, compared with 337 barrels per plant a week earlier. The contents of the gum averaged 10.93 gallons of turpentine and 297.1 pounds of rosin. The gum was graded 17 percent WW; 25 percent WG; 26 percent N; 19 percent M; 13 percent K and below.

The record of the gum naval stores markets over the week ended March 3 was as follows:—

**Gum Rosin**

| | Price per 100 lbs. Savannah Exchange (Low of range) Mon. | Tues. | Wed. | Thurs. | Fri. | New York c.l., l.c.l., f.o.b. ex N. Y. whse. Friday |
|---|---|---|---|---|---|---|
| B | $5.75 | $5.75 | $5.75 | $5.75 | $5.75 | $7.00 $7.75 |
| D | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 7.00 7.75 |
| E | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 7.20 7.95 |
| F | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 7.20 7.95 |
| G | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 7.20 7.95 |
| H | 6.11 | 6.11 | 6.11 | 6.11 | 6.11 | 7.20 7.95 |
| I | 6.11 | 6.11 | 6.11 | 6.11 | 6.11 | 7.20 7.95 |
| K | 6.11 | 6.11 | 6.11 | 6.11 | 6.11 | 7.20 7.95 |
| M | 6.11 | 6.11 | 6.11 | 6.11 | 6.11 | 7.20 7.95 |
| N | 6.11 | 6.11 | 6.11 | 6.11 | 6.11 | 7.25 8.00 |
| WG | 6.40 | 6.40 | 6.40 | 6.40 | 6.40 | 7.80 8.55 |
| WW | 6.78 | 6.78 | 6.78 | 6.78 | 6.80 | 7.90 8.65 |
| X | 6.78 | 6.78 | 6.78 | 6.78 | 6.80 | 7.90 8.65 |
| Drums | | | | | | |
| Sales | ... | ... | ... | ... | 100 | |
| Receipts | ... | ... | 84 | 163 | 20 | ... |
| Shipments | 91 | | | 10 | | |
| Stocks | 27,455 | 27,539 | 27,771 | 27,791 | 27,791 | |

**Gum Turpentine**

| | Drums Savannah Exchange Bulk Mon. | Tues. | Wed. | Thurs. | Fri. | New York (ret. dms.) tanks l.c.l. f.o.b. ex N.Y. whse. (7 lbs.) Friday |
|---|---|---|---|---|---|---|
| Per gal. | .43 | .43 | .43 | .43 | .43 | .50 .58 |
| Sales, bbls. | ... | ... | ... | ... | ... | |
| Receipts, bbls. | 329 | ... | 163 | 81 | 104 | |
| Shipments, bbls. | 493 | 3 | 166 | 82 | 48 | |
| Stocks, bbls. | 8,469 | 8,466 | 9,048 | 9,047 | 9,103 | |

## Golden Gate Paint Group Discusses Amino Resins

C. D. Thurmond, Monsanto Chemical Company, was the principal speaker at a recent meeting of the Golden Gate Paint and Varnish Production Club at the El Jardin Restaurant, San Francisco. Mr. Thurmond presented a paper entitled "Amino Resins."

## Phila. Paint Technicians To Discuss Lacquers Mar. 15

The Philadelphia Paint and Varnish Production Club will meet at the Engineers' Club on March 15. The speaker for the evening will be Frank Piech, Hercules Powder Company, who will discuss "Hot-Spray Applications of Lacquer." The talk will include a description and comparison of the various types of hot spray equipment available, the changes in lacquer formulation necessary to use hot spraying most effectively, a comparison of the quality of the coating obtained with hot spray and room temperature spraying, and such other considerations as enter into a practical comparison of hot spraying and room temperature spraying.

## *Trade Briefs*

**Frederick G. Weigand** has been appointed resins insulation engineer in the chemical department of the General Electric Company, Schenectady, N. Y.

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| Specific gravity at 77° F. | 1.00-1.01 |
| Viscosity, Gardner-Holdt Scale, at 77° F. | |
| at 70% solids | $Z_3$-$Z_4$ |
| at 50% solids | F-G |
| Color, Gardner Scale, 1933 | 8 maximum |
| Acid value on solids | 6 maximum |
| Tolerance for mineral spirits | Over 100% |
| Tolerance for linseed oil | Over 100% |
| Pigment compatibility | All pigments |
| Type of resin | Oil modified |
| Type of oil | Soyabean oil |
| Phthalic anhydride content | 24% |

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HOUSTON—E. B. McCullough Co.
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MONTREAL—B. & S. H. Thompson & Co., Reg.
NEW ORLEANS—Russell Chemical Co.
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## Dry Casein Production Up 41 Percent in 1949

Dry casein production during 1949 totaled 20,265,000 pounds, a gain of 41 percent over 1948, but a decline of 43 percent under 1947, the bureau of agricultural economics, Department of Agriculture, has reported. Manufacturers' stocks of dry casein on December 31, 1949, were 1,350,000 pounds, down 16 percent from a year earlier and 58 percent from the December 31 average for the 1943-47 period, the report said. December production was 1,200,000 pounds, up 114 percent from a year earlier.

## CDIC Paint Technicians Discuss Paper Lacquers

Robert D. Ullrich, Hercules Powder Company, was the principal speaker before a recent meeting of the Cincinnati, Dayton, Indianapolis and Columbus Paint and Varnish Production Club, held in Dayton, Ohio. Mr. Ullrich presented an illustrated talk on "Lacquers for Use on Paper." He discussed the various formulations used for special purposes and distributed a booklet on "Packaging and Paper Lacquers Based on Nitro Cellulose" and samples of various coatings.

## Phila. Paint Club to Meet

The Philadelphia Paint, Varnish and Lacquer Association will meet at the Adelphia hotel on March 8. There will be a social session at 6 p.m., dinner will be served at 6:30, and it will be followed by a talk by Michael MacDougall entitled "Gamblers Don't Gamble."

## N.E. Paint Club to Meet

The New England Paint, Varnish and Lacquer Association will meet at the Statler hotel, Boston, on March 9. The guest speaker for the occasion will be Dr. Murray Banks, who will deliver an address entitled, "How to Live with Yourself."

### Hilo Has New Undercoat

Hilo Varnish Corporation, Brooklyn, N. Y., is currently marketing "Molmanite" self priming enamel undercoat, as a companion product to its "Molmanite" quick drying synthetic white enamel. The self priming feature of the new undercoat makes it possible to obtain an excellent two-coat enamel finish on new work with one undercoat and one coat of finishing enamel, according to the company.

## *Southern Paint Technicians*

*—Continued from page 4*

reported that the following exhibitors will show materials and equipment of interest to the industry in the south:

Archer-Daniels-Midland Company, oils; South Florida Test Fence, exposure panels; C. M. Ambrose Company, filling and straining equipment; R. T. Hopkins, paint and varnish raw materials and containers; Baker Castor Oil Company, paint and varnish vehicle raw materials; Epworth Manufacturing Company, ball mills and mixing equipment.

Spencer Kellogg & Sons, Inc., oils and vehicles; Nuodex Products Company, driers and fungicides; Falk & Co., oils, vehicles and resins; American Cyanamid Company, resins, alkyds, pigments and intermediates; Goodyear Tire & Rubber Company, "Pliolite" and "Laytex" base raw materials for paints, enamels and vehicles; Reichhold Chemicals, Inc., resins, alkyds, pigments and intermediates; Shell Chemical Company, solvents, resins and intermediates.

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# Petroleum Derivatives

The big feature in the petroleum derivatives market last week was the weather. Sales of fuel oils and LPG's were up as a direct result of the temperature drop. Long range forecasts indicated that more real Winter weather was in store and if accurate, that meant a continuing heavy demand. Fuel oil prices were down at some East and Gulf Coast points. No. 6 was off 15c. and No. 4 and 5 oils were down 8c. to 19c. per barrel.

The strike in the coal industry was also having an effect on the demand for petroleum derivatives. Consumers of coal who were out of supply or nearly so were naturally looking for substitutes. Coaltar toluol and xylol were scarce and this naturally threw the demand on the makers of the petroleum materials.

The industry was looking for better things in the turnover of aliphatics. True, the cold weather was here now, but Spring was not far ahead and this would normally mean an increased sale of these items as soon as the protective coatings industry felt the stimulus of Spring business.

Lighter fractions, except butane and propane, were in a largely unchanged position. Petrolatum was still holding on price, with the demand generally good. Petroleum sulphonate was without particular feature. White mineral oils were in good demand at this time and the future was reported to look satisfactory.

## Solvents and Diluents

**Aromatic Solvents**—Opinions varied as to the pressure of demand for toluol and xylol last week. Some quarters reported it strong while in others it was said to be about normal for this time of year. One source said there were only a few added inquiries being noted as a result of the strike in coal hampering coaltar production. In other directions it was explained that the strike had brought in requests for petroleum aromatics in great numbers. One source reported the supply satisfactory but others found it on the tight side. Contract customers were generally being accommodated but at times it was necessary to allocate material in an effort to spread a fair share of it around. One source said it was looking for a cutback in demand because of the lack of steel to be coated, although at the moment it was a bit early for this. However, should the work tie-up continue, it was thought a good possibility. Price listings were firm during the week and there were no indications that there were any revisions in the offing.

Higher boilers were in pretty much the same position they had been in during the previous week. The demand continued to hold at reasonably good levels, while the supply was in fairly good shape. The price structure was unchanged and there were no signs of any revisions in the immediate future. Blends, too, showed no particular change from their position of the week before. The demand was generally considered normal for this time of the year. Supply was called pretty good.

**Cleaners' Naphtha**—The price listings were still holding at previously noted levels and there were no indications that there would be any revisions in the immediate future. The supply was holding at sufficiently high levels to cause no special problems in satisfying the needs of the market. Demand was considered fair, which was about what it had been in the recent past.

**Lacquer Diluent**—Demand, for this time of year, was reported to be holding at levels that were considered pretty good. The general expectation was that there would be an increase in call in a short time with the coming warm weather. Supply was adequate for the needs of the market at this time and was said to tend toward the strong side. There were no changes reported in the price listings and none were indicated for the immediate future.

**Mineral Spirits** — With March already here and spring around the corner, producers were looking toward increased sales of this item. Such a pickup was normal for the time of year and there was no reason to believe it would not come about this year. Prices were holding at their old levels and there were no signs that there would be any revisions in the immediate future.

**Rubber Solvent**—Supply was good last week and the signs were that it would continue in that position for at least the immediate future. Depending on the position of the seller, the demand was said to be holding at levels from fair to normal. Pricewise, the market was without feature and there were no indications of any revisions coming in the immediate future.

**Stoddard Solvent**—Supply was a bit heavier than demand last week, a condition that had prevailed for some time. Prices were holding at previously noted levels with no signs of any pending changes.

**V. M. & P. Naphtha**—Sellers were watching the weather during the past week, for a break in the low temperatures and indications of Spring were expected to help pick up the demand. Supply was in a good position and normal orders could be filled without difficulty. Prices held at previously established levels and there were no indications of any revisions coming immediately.

## Lighter Fractions

**Heptane**—The price listings were unchanged last week and there were no signs that there would be any revisions at this time. There was no trouble being encountered with supply, for it was holding up to generally good levels. Demand was called about fair.

**Hexane**—Supply was still holding at levels that were sufficiently high to obviate difficulty in taking care of the normal needs of consumers. Demand was not heavy. The call was considered about fair, which is what it had been in the recent past. As far as the price structure was concerned, there were no revisions and none were expected at this time or in the immediate future.

**LPG's**—The cold weather and the strike in the coal industry last week combined to boost sales of butane and propane to great levels. Until recently, the weather had been warm enough to retard sales, but when the cold break came it caused a complete reversal in turnover. Despite the heavy added call, there was some easing noted, largely because the Spring season was approaching. There were no changes reported in price and none were indicated for the immediate future.

**Pentane**—Supply was at a good point last week and showed indications of staying that way in the immediate days ahead. Demand was fair to moderate, which was about where it had been in the recent past. Prices held and there were no signs of any changes pending for the immediate future.

## Miscellaneous

**Fuel Oil**—Prices declined at a number of East and Gulf Coast points last week. No. 6 oil was off 15c. at various points. No. 4 and 5 oils in tanks were down 8c. to 19c. per barrel. The downward trend was attributed to growing competition.

**Petrolatum**—Little change was noted in this market last week. Supplies were at satisfactory levels. Domestic demand was good and the indications were that the export demand was holding up well. Prices held and there were no indications of revisions in the offing.

**Petroleum Sulphonate**—Supplies were still tight, with no sign of easing. Demand was strong. Prices held and no revisions appeared imminent.

**White Mineral Oils**—Demand was said to be good now and to look good for the future. Supply was at levels high enough to satisfy normal ordering. There were no changes in price and none were indicated for the immediate future.

### Los Angeles Petroleum Market

Local refiners report demands for solvents and diluents steady with no price changes and no supply problems. Cleaning solvent quoted from 15½c. to 19½c. per gallon, tankwagon, extax, f.o.b. Los Angeles basin area. Lacquer diluent from 16½c. to 20½c. per gallon, same basis, and stoddard solvent quoted from 15.7c. to 19.5c. per gallon, same basis.

A slight increase in demand for heating fuel has stimulated local market activity. The supply of both propane and butane is good with prices unchanged as follows:—Propane quoted 6.3c. per gallon, tankcars, f.o.b. Los Angeles basin area. Butane quoted at 5.8c. per gallon, same basis

No change is reported in the marketing picture for waxes. Supplies are ample for all grades. 140/147 ASTM, carload loose slabs, f.o.b. shippers refinery, San Francisco, quoted at 6.95c. per pound. 146/148 ASTM, same basis, quoted at 7.15c. per pound and 157/162 ASTM, same basis, quoted at 7.6c. per pound. Tankcar prices quoted at 6.6c., 6.8c. and 7.25c. per pound respectively.

## Waxes

A new grade of fully refined, 151 ASTM, has been placed on the market, according to recent announcement. The price is 7¾c. per pound in tankcars. There were still no prices available on crude, scale. Otherwise, there were no particular changes in the market.

### Centro Invites Visitors

Centro Research Laboratories, Inc., Briarcliff Manor, N. Y., will hold open house for visitors interested in reviewing new developments in the paint, varnish and lacquer industry from March 6 through March 10. Items of special interest to be shown are a range of styrenated oils, water soluble oils, methods of controlling flow and viscosity, and alkyd flat paints.

## Trade Briefs

**Deep Rock Oil** Corporation, Tulsa, Okla., has appointed Carl A. Houy general superintendent of crude oil production.

**Gulf Oil** Corporation, Pittsburgh, Pa., has elected John F. Walton, jr., to its board of directors. Mr. Walton recently resigned from active duty with the company's sales department.

**Sunray Oil** Corporation has sent the Treasury Department a check for $3,060,000 as final payment on the catalytic cracking refinery at Duncan, Okla., purchased from War Assets Administration.

**Socony-Vacuum Oil** Company, New York, is planning the construction of three additional "Thermofor" catalytic cracking units at its refineries in Buffalo, N. Y.; Beaumont, Tex., and Brooklyn, N. Y.

**North American** Petroleum Company, Ltd., has appointed John G. Whitney vice-president in charge of distributors. He will have under his jurisdiction all distributors in the United States, Canada and abroad.

## Crude Oil Stocks

Stocks of domestic and foreign crude petroleum at the close of the week ended February 18 totaled 245,894,000 barrels, according to the Bureau of Mines. Compared with the total of 245,450,000 barrels for the preceding week, this represented an increase of 444,000 barrels, comprising a decrease of 249,000 barrels in stocks of domestic crude and an increase of 693,000 barrels in stocks of foreign crude.

## Market Trends

**Prices Advanced**
None

**Prices Reduced**
None

(For Current Prices see Page 9)

For Late Market Developments, See Page 4

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| Cloud Point °F | 38°-42° | 46°-49° | 63°-71° |
| Color Lovibond 1" Red | 4 - 7 | 4 - 7 | 4 - 7 |
| Color Lovibond 1" Yellow | 20 -40 | 20 -40 | 20 -40 |
| Unsaponifiable % | 2.0 -3.0 | 2.0 -3.0 | 1.5 -2.5 |
| Saponification Value | 196 -199 | 196 -199 | 197 -200 |
| Acid Value | 195 -198 | 195 -198 | 196 -199 |
| % F.F.A. as Oleic Acid | 98 -99.5 | 98 -99.5 | 98.5 -100.0 |
| Iodine Value | 90 -93 | 88 -91 | 80 -85 |

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# Oils, Fats and Waxes

Prices of oils and fats continued to climb last week, especially for the edible grades. The price index advanced 1.5 last week.

Leading the advance were cottonseed and soybean oils, which were boosted about ½ cent per pound. This was reflected in competing oils which also closed higher. Offering of 10,000,000 pounds of crude cottonseed oil for domestic consumption at above the prevailing market price, caused crushers to limit offerings and to set their sights on the government asking price. Soybean oil was stronger with the higher cost of beans and improved call for domestic and export delivery. Peanut and corn oils were lifted fractionally.

Scarcity of offerings of copra stiffened coconut oil and quotations were fractionally advanced. Copra was raised $10 per ton.

Recent advance in domestic castor oil resulted in a fractional advance in the Brazilian technical grade. Small stocks of palm oil on spot were advanced ½ cent per pound as were shipments. Rice bran oil also was higher.

Crude fish oils were firmer, with light sales of crude sardine reported at an increase of ½ cent on the Pacific coast. Good quality crude menhaden also was higher. Refined grades were unchanged, but were firmly held. Tung oil remained scarce and firm, while oiticica was cut 1 cent per pound for prompt and forward delivery. Linseed oil continued inactive.

The State Department announced the lower duty on edible olive oil in drums (containers of over 40 pounds), would become effective March 9. The new rate is 3¼ cents per pound, against the former tariff of 6½ cents.

Tallow and greases continued strong. Producers were not offering and were holding for premiums. Bids for sizable quantities at current prices from large users were turned down. Sales of small lots were made at premiums of about ½ cent per pound.

## Market Trends

**Prices Advanced**

Castor oil, tech., Braz., ½c. per lb.
Coconut oil, ¼c. per lb.
Copra, $10 per ton.
Corn oil, ¼c. per lb.
Cottonseed oil, ½c. per lb.
Menhaden oil, crude, ½c. per lb.
Palm oil, ½c. per lb.
Peanut oil, ½c. per lb.
Sardine oil, crude, ½c. per lb.
Soybean oil, ½c. per lb.

**Prices Reduced**

Oiticica oil, 1c. per lb.

**Comparative Price Indexes**

(100—August 1, 1914)

| Last week | Prev. week | Last month | Dec. 30, 1949 | Mar. 4, 1949 |
|---|---|---|---|---|
| 118.9 | 117.4 | 114.7 | 111.3 | 146.6 |

(For Current Prices see Page 9)

## Cottonseed Oil

Active trading and higher prices featured bleachable cottonseed oil futures last week. Moderate gains were registered and all months reached new season's highs, also September, which was under liberal selling pressure. Trading was mixed, with support from trade buyers, commission houses and short covering. The market reflected the strength in crude cottonseed and competing oils. A strengthening factor also was the offering of government held crude oil for domestic consumption at 13⅛c. per pound, f.o.b., mills for March shipment. This caused mills to reduce offerings and boost ideas to 13c. in the Valley.

Crude cottonseed oil sales were made up to 12⅝c. per pound, tankcars, Southeast and Valley with crushers holding at 12¾c. to 13 Sales took place in Texas at 12½c., net advance of ½c.

Refined cottonseed oil disappearance totaled 346,268 barrels, in January, against 324,277 barrels, December and 305,400 barrels, January, 1949. The visible supply of refined oil at the end of January was estimated at 2,060,600 barrels, compared with 2,152,800 barrels for the same time last year.

Sales and prices of refined bleachable prime summer yellow cottonseed oil in tankcars (60,000 pounds) on the N. Y. Produce Exchange for the week ended March 3 follow:—

| | Sales | Cents per pound—High | Low | Close |
|---|---|---|---|---|
| March | 168 | 15.14 | 14.28 | 15.10@15.24 |
| May | 503 | 14.98 | 14.12 | 14.98S |
| July | 578 | 14.79 | 14.06 | 14.78S |
| September | 557 | 14.31 | 13.92 | 14.30S |
| October | 40 | 13.90 | 13.40 | 13.87@13.90 |
| December | 62 | 13.63 | 13.00 | 13.62@13.69 |
| January | .... | .... | .... | 13.67N |

Total sales, 1,908 tankcars, including switches.

*Memphis.*—Crude cottonseed oil, 12½c. bid and 13c. asked for tankcars, f.o.b. mills. Crude soybean oil, 12⅜c, same basis. Market rather tight. Mills not pressing trades. Cottonseed meal, 41 percent, $56 per ton, bulk and 41 percent cake $52, Valley, March-April. Sales of cake made at for export at $56 to $57 per ton, f.a.s. port. Demand good. Cottonseed hulls, $6 peo ton, bulk, Valley.

## Linseed Oil

Consumers continued to take moderate quantities against former contracts and showed little interest in new commitments. The market was quiet and listless. Open quotations could have been shaded for tankcar business. The bulk of recent trading was done on this basis. Raw oil was quoted at 17.30c. to 17.50c. per pound, tankcars, Zone 3, as to seller.

*Minneapolis.*—Shipping instructions last week were heavy on linseed oil, topping 9,000,000 pounds. Towards the end of the week, however, a tapering off in shipping orders was noted as paint manufacturers east of the Mississippi river were ordered to cut their use of power because of the coal strike. Several large crushers reported that cancellations of shipping specifications were trickling in at the week's end. Spot quotations on oil held steady at 16.7c. to 16.9c. per pounds, raw basis, delivered in zone 1. Futures contracts were around 4 points lower at 16.4c. per pound.

Shipments of linseed oil, in pounds were as follows:—

| | 1949-50 | 1948-49 |
|---|---|---|
| This week | 9,120,000 | 7,840,000 |
| Since Sept. 1 | 224,820,000 | 175,558,000 |

**Flaxseed**—Market was irregular. Trading light and spotty.

*Minneapolis.*—Interest in flaxseed was good at the Minneapolis and Duluth markets early last week but demand faded away as major crushers dropped out of the market. Top price of $3.99 was paid early in the week only on flaxseed originating from selected North Dakota and northern Minnesota areas. Late in the week, choice flax was drawing only $3.90 per bushel. Intermediate grades of flax from South Dakota and southern Minnesota sold at $3.80 to $3.85, while poor types sold as low as $3.70 and $3.75. Receipts at the Minneapolis and Duluth markets the past week totaled 173 cars, compared with 183 the week previous and 70 cars a year ago. In its preliminary report Feb. 27, the government released figures on flaxseed under government loan and purchase agreements as of January 31, 1950. The report showed that farmers placed 11,384,626 bushels of flaxseed under price support. This compared with about 9,300,000 bushels under support as of Dec. 31, 1949, and with 3,600,000 bushels under loan on Jan. 31, 1949. Of this year's total under support, about 2,900,000 bushels of flaxseed were on farms, 6,000,000 in warehouses and 2,400,000 bushels under purchase agreements. In addition to the amount of flax under support, the government also owns outright 13,943,000 bushels of flaxseed which it had already taken over through liquidation of loans and purchase agreements.

Receipts and shipments of flaxseed last week, in bushels, were as follows:—

| Bushels— | Receipts 1949-50 | Receipts 1948-49 | Shipments 1949-50 | Shipments 1948-49 |
|---|---|---|---|---|
| This week | 224,400 | 141,800 | 30,600 | 112,200 |
| Since Sept. 1 | 15,206,700 | 30,218,300 | 2,297,500 | 7,426,500 |

## Other Vegetable Oils

**Castor Dehydrated**—Higher cost of castor beans continued to stimulate this market, irrespective of moderate demand for oil. Prices were firm for all grades. Brazilian No. 1, castor oil was firmer and lifted to 16c. per pound, tankcars, prompt delivery, New York.

**Coconut**—Prices were raised ½c. per pound, following the advance in copra. Consuming inquiry was spotty. Crude oil was quoted at 14½c. per pound, tankcars, f.o.b. Pacific coast, March-April shipment.

**Copra**—Offerings for shipment were advanced $10 to $195 per short ton, c.i.f. Pacific coast.

**Corn**—Trading in crude oil was reported at 13⅜c. per pound tankcars, f.o.b. mills. Bids at this figure were later turned and 13⅝c. was maintained. Refined oil was unchanged at 16½c. per pound, tankcars, New York delivery.

**Oiticica**—Consuming inquiry was restricted to actual requirements. Prices were easier and tankcars were offered at 20c. per pound, prompt delivery and 19c. futures. Drums were quoted at 21c. to 22c. per pound, depending upon quantity.

**Olive** — The State Department announced that the lower duty on edible oil of 3¼c. per pound in drums becomes effective March 9. Business was slow and no improvement was expected until lower duty goes into effect. Edible oil was unchanged and steady at $2.50 to $2.75 per gallon, drums, duty paid spot, as to quantity. Commercial oil was unchanged. Foots were firmer at 13½c. to 14c. per pound, as to quantity.

**Palm**—Stocks on the spot were scarce.

For Late Market Developments, See Page 4

Drums in small lots were raised ½c. to 12.95c. per pound. April-May shipment was quoted at 11.30c. per pound, tankcars, New York basis.

**Peanut**—Crude oil firmer, with sales at 14¾c. per pound, tankcars, f.o.b. mills and sellers asking up to 15c. Refined oil was maintained at 17¾c. per pound, tankcars, New York delivery.

**Soybean**—This market was firmer, especially for immediate shipment. Sales of crude were made at 12¼c. per pound, tankcars, f.o.b. mills, and advanced to 12½c. first half March shipment. Straight March was sold at 12⅜c. May-June was held at 11¾c. and July-September 11½c. Refined edible oil was lifted to 15c. per pound, tankcars, New York. Refined alkali and clarified were advanced ½c. to 14.40c. and 13.40c. per pound, tankcars, New York delivery, respectively. Refined oil consumption totaled 430,818 barrels, in January, against 365,360 barrels, December and 322,297 barrels, January 1949. Visible supply was estimated at 1,690,700 barrels, January 31, compared with 1,580,100 barrels, for the same time last year.

Sales and prices of prime crude soybean oil on the N. Y. Produce Exchange in tankcars (60,600 pounds) for the week ended March 3 follow:—

| | Sales | Cents per pound High | Low | Close |
|---|---|---|---|---|
| March | 8 | 12.60 | 12.25 | 12.75@12.90 |
| April | .. | .... | .... | 12.00@12.25 |
| May | 29 | 11.79 | 11.05 | 11.93@12.00 |
| June | 2 | 11.60 | 11.42 | 11.50@11.75 |
| July | 43 | 11.65 | 11.00 | 11.64@11.70 |
| August | .. | .... | .... | 11.45@11.65 |
| September | 3 | 11.12 | 9.95 | 11.35@11.50 |
| October | 22 | 10.30 | 10.10 | 10.54@10.65 |
| November | 19 | 10.38 | 10.00 | 10.36@10.39 |
| December | 14 | 10.30 | 10.10 | 10.30S |
| January | .. | .... | .... | 10.30N |
| February | .. | .... | .... | 10.30N |

Total sales, 140 tankcars.

**Tung**—Offerings of imported oil for prompt shipment continued scarce. Tankcars were maintained at 26½c. per pound, New York, March-April shipment. May delivery was quoted nominally at 25¾c., same basis. Domestic oil was sold at 25¼c. with sellers quoting 25½c. to 25¾c. per pound, tankcars, f.o.b. mills, as to delivery. Imports at New York last week totaled 630 tons and 179 drums from the Argentine against former contracts.

## Fats and Greases

**Greases**—Consuming inquiry was active, but trading was limited owing to the lack of offerings at current prices. Producers were holding at premiums and the market was a stalemate. Export inquiry was active with sales of yellow reported at 6¼c. per pound, bulk for shipment.

**Lard**—This market was unsettled and declined fractionally last week. Export business was light. Pure refined was quoted at 12c. per pound, containers, f.a.s. Cash lard was lower at 10.65c. per pound, tierces, Chicago.

**Tallow**—Scarcity of offerings affected trading last week. Large users were bidding for all grades at prevailing quotations which were refused. Producers were holding for premiums for sizable quantities. Small buyers paid premiums from ⅜c. to ½c. per pound. Export inquiry also was keen. Fancy was reported sold at 7½c. per pound, loose, f.a.s.

## Animal Oils

**Degras**—Market was steady, with demand fair, chiefly for prompt needs. Crude and refined grades were held at former levels.

**Grease Oils**—Firmness in tallow and grease was reflected in this market and prices were maintained at the recent advance. Business was light and spotty.

**Oleo Oil**—Trading was more active at prevailing quotations. Extra was well held at 12½c. per pound, drums, New York.

**Oleo Stearine**—Consuming demand was restricted to occasional lots for immedi-


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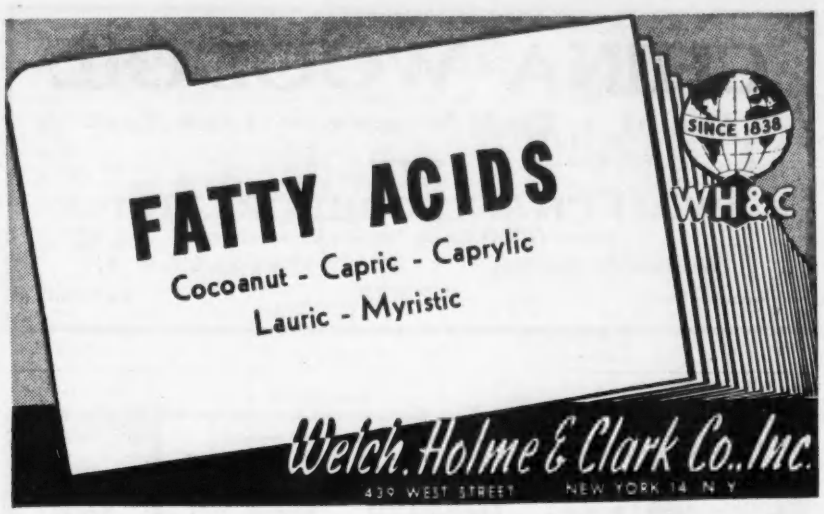

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ate needs. Market was steady at 9¼c. per pound, barrels, New York.

## Fish Oils

**Cod**—Consuming demand was confined to small lots for actual needs. Tanked oil was unchanged and fairly steady.

**Fish**—Crude oils were firmer and sardine was sold at 6¾c. per pound, tankcars, f.o.b. Pacific, an advance of ½c. Crude menhaden oil scarce ranging from 6½c. to 7c. per pound, tankcars, Atlantic coast, depending upon quantity.

*Los Angeles.*—The fish oil market remained steady. Buying interest was quiet here, while sellers held small stocks at 6½c. per pound, tankcars, f.o.b Los Angeles. Business was reported up to 6¾c. tankcars, f.o.b. Pacific coast. Tuna oil continues to carry a nominal listing of 4.5c. per pound, tankcaars, f.o.b. Los Angeles, with no activity. Supply of this oil is light.

## Cake and Meal

**Cottonseed Meal**—Loose slab cake 41 percent trading in the Mississippi Valley at $51.50 for February, March, April shipment which is slightly higher than a week ago. Meal 41 percent sacked was offered at $57.50 to $58, Memphis and $1 per ton less, middle delta region February, March, April shipment. Offerings of meal in the Southeast were still light ranging from $62 to $63 per ton for 41 percent sacked and 36 percent $5 less.

**Linseed Meal**—Demand active last week. Market remained steady at recent price advance.

*Minneapolis.*—Trading in linseed meal was heavy last week. Demand for 34 percent expeller linseed meal lessened somewhat following its recent gain over the solvent type and prices held about unchanged with the previous week. Good demand for 36 percent extracted meal held prices firm at $59.50 to $60 per ton, bulk, Minneapolis basis. Thirty-four percent expeller linseed meal was quoted at $65 per ton.

Shipments of linseed meal, in pounds, were as follows:—

| | 1949-50 | 1948-49 |
|---|---|---|
| This week | 17,340,000 | 17,460,000 |
| Since Sept. 1 | 473,690,000 | 353,140,000 |

**Peanut Meal**—Market held firm to steady with 45 percent sacked old process quoted at $59 to $60 f.o.b. South Georgia and South Alabama mills, March shipment. There is some meal still in the hands of exporters but most oil mills are sold up.

**Soybean Meal**—March shipment, 44 percent was quoted at $56 per ton Decatur, while 45 percent sacked was held at $61 basis West Tennessee and 41 percent at $61 to $61.50 Mississippi Valley points. Demand has been fairly good with supplies adequate.

## Waxes

**Beeswax**—Trading was reported slow. Quotations were unsettled for spot delivery and firm bids for sizable quantities could have been shaded crude and refined grades. Offerings were liberal.

**Candeillia**—Business was restricted to small lots for actual needs. Prices were unchanged and more or less nominal.

**Carnauba**—The spot situation was fairly steady, despite the easiness at primary sources. Business was limited. Prices were unchanged on the spot, except for yellow which was easier. No. 1 was quoted at $1.08 to $1.10 per pound and No. 2, $1.06 to $1.08.

**Ouricury**—This market was dull and featureless. Refined was softer and quoted at 81c. to 82c. per pound, on spot as to seller.

## *Margarine Data: 1948-49*

Statistics on production and withdrawals of colored and uncolored margarin during the fiscal year ended June 30, 1949, have been issued by the Bureau of Internal Revenue. The data are as follows, in pounds:—

**Colored**

| | |
|---|---|
| Stocks, July 1, 1948 | 1,457,230 |
| Produced | 126,676,639 |
| Withdrawn: | |
| Tax paid | 114,832,789 |
| For export | 9,938,115 |
| Free of tax for use of United States | 1,374,844 |
| Lost or destroyed | 17,948 |
| Stocks, June 30, 1949 | 1,970,173 |

**Uncolored**

| | |
|---|---|
| Stocks, July 1, 1948 | 10,284,871 |
| Produced | 731,935,937 |
| Withdrawn: | |
| Tax paid | 735,370,539 |
| For export | 196,794 |
| Free of tax for use of United States | 141,502 |
| Lost or destroyed | 188,531 |
| Stocks, June 30, 1949 | 6,323,442 |

The bureau has also reported the materials used in the manufacture of colored and uncolored margarin during the year. The data are as follows, in pounds:—

| | |
|---|---|
| Butter flavor | 58,014 |
| Coconut oil | 890,314 |
| Color | 86,658 |
| Corn oil | 1,539,264 |
| Cottonseed oil | 435,250,470 |
| Diacetyl | 3,477 |
| Glycerin derivative | 1,269,637 |
| Lecithin | 1,457,951 |
| Milk | 144,400,995 |
| Monostearin | 724,945 |
| Neutral lard | 4,118,804 |
| Oleo oil | 3,507,368 |
| Stearin | 3,057,775 |
| Stock | 496,115 |
| Peanut oil | 4,008,747 |
| Salt | 26,288,924 |
| Sodium benzoate | 596,176 |
| Sulphoacetate | 53,470 |
| Soybean flakes | 20,297 |
| Oil | 244,543,635 |
| Vitamin concentrate | 167,889 |
| Total | 872,540,943 |

## Bolivia Plans to Devaluate Currency and Curb Imports

Bolivia has advised the International Monetary Fund of its intentions to modify its foreign exchange practices in a move to strengthen its financial condition in the field of foreign trade. One of the principal modifications contemplated is a cheapening of the boliviano in terms of the American dollar. Also, it proposes to place tighter curbs on imports.

Bolivia has a system of foreign exchange practices in which the rates vary both for exports and imports from its par value of 42 bolivianos per United States dollar. Under the proposed change, a rate of 60 bolivianos per dollar will be established for tin exports, which constitute about 70 percent of Bolivia's total exports. Minor exports will continue receiving different effective rates derived from selling certain percentages at 42 and 60 bolivianos per dollar and at the free market rate.

On the import side, a minimum number of essential imports (approximately 14 percent of 1949 total imports) will continue to be provided with exchange at the rate of 42 bolivianos per dollar. The bulk of the imports will be transacted at the new rate of 60 bolivianos per dollar. A list of nonessential imports will enter at the free market rate.

## Baleen Whale Catch Totals 10,746 Units as of Feb. 11

A total catch of baleen whales during the current Antarctic whaling season was 10,746 blue-whale units as of February 11, 1950, according to a report to the Department of the Interior's fish and wildlife service by the International Bureau of Whaling Statistics, Sandefjord, Norway. This figure does not include the preceding week's catch of the USSR which had not been received as of the date the statistics were reported from Norway.

The Antarctic catch of baleen whales in the 1949-50 season again is being limited to a maximum of 16,000 blue-whale units in accordance with the regulations of the International Whaling Convention held in Washington on December 2, 1946. The current season, which began December 22, 1949, ends April 7, 1950, or on such earlier date as the maximum catch of 16,000 blue-whale units is attained.

## *Oilseeds, Milk Powder*

—*Continued from page 3*

locations, as follows:—17.7 cents per pound, Minneapolis and Chicago; 18 cents per pound, Buffalo, N. Y., San Francisco and Los Angeles; 18.3 cents per pound, New York, Philadelphia, Baltimore, and Portland, Oregon; 18.4 cents per pound, Houston, Tex., Kenedy, Tex., and Good Hope, La. Export price:—8/10 cent off the domestic price.

Flaxseed, bulk, 13,000,000 bushels, domestic price No. 1, $4.29 per net bushel, bulk, in store, Minneapolis. For other markets, and other grades, adjust by market differentials. Export prices:—No. 1, $4.45 per net bushel, bulk, in store any east coast port; No. 1, $3.99 per net bushel, bulk, in store Minneapolis.

Potato starch, 420,000 pounds of pearl type packed in 200-pound burlap bags with paper innerliners, and 9,650,000 pounds of powdered type packed in 100-pound and 200-pound burlap bags, with paper innerliners, domestic price $4.50 per cwt, f.o.b. Maine shipping points. Export price, $5.10 per cwt, f.a.s. vessel, Boston.

## *Trade Briefs*

**Neil H. McElroy,** president of Procter & Gamble Company has been elected a director of the General Electric Company.

**Dr. Alexander Schwarcman,** research director and a vice-president of Spencer Kellogg & Sons, Inc., Buffalo, N. Y., has been awarded the first honorary membership in the Niagara chapter of the American Institute of Chemists.

**Tennessee Eastman** Corporation, Kingsport, Tenn., has published a bulletin describing how salted foods which contain various fats and oils can be protected from oxidative rancidity by the addition of small quantities of "Tenox II" to the salt.

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## *Imports at U.S. Ports*

*—Continued from page 55*

PETROLEUM, CRUDE—120,281 bbls, Atlantic Refining Co, Atlantic importer, Pamatacual
180,476 bbls, Socony Vacuum Oil Co, Sovac Astral, Mena Al Ahmadi
26,303 tons, Gulf Oil Corp, Burgan, Mena Al Ahmadi
80,138 bbls, Texas Oil Co, Ohio, Pamatacual
116,094 bbls, Socony Vacuum Oil Co, Battle Rock, Arabia
103,553 bbls, Gulf Oil Corp, Gulfhawk, Las Piedras
91,351 bbls, Socony Vacuum Oil Co, Calliroy, Covenas
70,366 bbls, Cities Service Oil Co, Marathon, Tampico
202,470 bbls, Gulf Oil Corp, Jahra, Puerto La Cruz
91,647 bbls, Texas Oil Co, Europe, Puerto La Cruz
119,894 bbls, Socony Vacuum Oil Co, Sacona, Covenas
20,536 bbls, Gulf Oil Corp, Ulysses, Puerto La Cruz
101,773 bbls, Atlantic Refining Co, Gallia, Pamatacual
105,152 bbls, Gulf Oil Corp, Gulfwing, Las Piedras
118,090 bbls, Gulf Oil Corp, Gulfscout, Puerto La Cruz
27,275 tons, Gulf Oil Corp, Jahra, Mena Al Ahmadi
119,892 bbls, Gulf Oil Corp, Gulfglow, Puerto La Cruz
136,800 bbls, Texas Oil Co, Kentucky, Pamatacual
120,425 bbls, Texas Oil Co, Republic, Las Piedras
204,765 bbls, Gulf Oil Corp, Ulysses, Puerto La Cruz
144,026 bbls, Gulf Oil Corp, Gulfpride, Puerto La Cruz
15,473 tons, Gulf Oil Corp, Fenheim, Fahaheel
90,760 bbls, Atlantic Refining Co, Brunswick, Las Piedras
135,248 bbls, Atlantic Refining Co, W C Yaeger, Puerto La Cruz
112,074 bbls, Texas Oil Co, Atlantic Refiner, Las Piedras
24,984 tons, Socony Vacuum Oil Co, Sovac Aladdin, Mena Al Ahmadi
105,157 bbls, Gulf Oil Corp, Gulftrade, Las Piedras

PETROLEUM, CRUDE—109,818 bbls, Socony Vacum Oil Co. Mobilgas. Covenas
113,153 bbls, Texas Oil Co, Louisiana, Puerto La Cruz
119,219 bbls, Gulf Oil Corp, Gulfvictor, Puerto La Cruz
118,231 bbls, Gulf Oil Corp, Gulftrade, Puerto La Cruz
24,449 tons, Socony Vacuum Oil Co, Sovac Brilliant, Mena Al Ahmadi
120,025 bbls, Gulf Oil Corp, Gulfkey, Las Piedras
207,274 bbls, Texas Oil Co, Bulkoceanic, Ras Tanura
124,486 bbls, Texas Oil Co, Atlantic Prince, Ras Tanura
200,756 bbls, Texas Oil Co, Ohio, Ras Tanura
117,109 bbls, Gulf Oil Corp, Gulfvictor, Puerto La Cruz
121,636 bbls, Atlantic Refining Co, Atlantic Refiner, Pamatacual
133,235 bbls, Socony Vacuum Oil Co, Virginia, Corenas
187,856 bbls, H G Schad Co, Sovac Pegasus, Mena Al Ahmadi
27,399 tons, Gulf Oil Corp, Atlantic Emperor, Mena Al Ahmadi
210,005 bbls, Atlantic Refining Co, Bulk-Oceanic, Pamatacual
TAR OIL—1 cs, American Chemical & Paint Co, Flying Trader, Rotterdam
TUNG OIL—247 bbls, Agro Products Corp, Livarden, Buenos Aires
UREA—1,000 bgs, Imperial Chemical Co, American Veteran, Manchester
WATTLE BARK—1,111 bls, American Dyewood Corp, Robin Sherwood, Durban
WHITING—2,050 bgs, Nicholas H Weitzner & Co, Arkeldyk, Antwerp
ZINC OXIDE—2,240 bgs, Firestone Tire Co, American Manufacturer, Liverpool

### *San Francisco*

ALLSPICE—150 bgs, Pacific National Bank, Durango, Kingston
40 bgs, Durango, Kingston
BONE CHARCOAL—800 bgs, Tupman, Thurlow Co, Durango, London
MEAL—2,500 bgs, Manufacturers Trust Co, Wyoming, La Havre
3,717 bgs, Consolidated Chemical Industries, P&T Trader, Buenos Aires
271 tons, Consolidated Chemical Industries, P&T Trader, Buenos Aires
CALCIUM NITRATE—10,260 bgs, Wilson & George Meyer & Co, Abraham Lincoln, Heroya
CARAWAYSEED—476 bgs, Catz American Co, Golden Gate, Antwerp
CARAWAY SEED—100 bgs, Catz American Seed Corp, Duivendyk, Antwerp
CASSIA—185 bls, S L Jones & Co, Surprise, Hong Kong
COPRA CAKE—6,720 bgs, Wilbur, Ellis Co, Surprise, Manila
DERRIS POWDER—1,000 bgs, Santa Leonor, Callao
EGG YOLK, SPRAY—224 cs, Balfour, Guthrie & Co, Arcadia Victory, Taku Bar
FISH OIL—12 dms, New Ilhan Co, President Wilson, Hong Kong
FIRECRACKER PUNKS—130 cs, Rene D Lyon Co, President Wilson, Hong Kong
1,150 cs, F P Dow Co, President Wilson, Hong Kong
GALENA ORE—610 dms, Base Metals Corp, President Wilson, Manila
GALLNUTS—504 bgs, Mallinckrodt Chemical Works, General W H Gordon, Hong Kong
MENTHOL CRYSTALS—10 cs, Sembodja Corp, Arcadia Victory, Taku Bar
50 cs, China Trading Corp, Arcadia Victory, Taku Bar
40 cs, Magnus, Mabee & Reynard, Inc, Arcadia Victory, Taku Bar
OLIVE OIL—50 dms, D F De Bernardi & Co, Mount Mansfield, Marseilles
50 dms, G Granucci & Sons Co, Mount Mansfield, Marseilles
30 dms, R Vannucci Co, Mount Mansfield, Marseilles
30 dms, Lady's Choice Foods, Mount Mansfield, Marseilles
PAPRIKA—200 bgs, B C Ireland Inc, Duivendyk, Antwerp
PAPRIKA—150 bgs, M J Golombeck Inc, Golden Gate, Antwerp
PEPPER, WHITE—28 bgs, President Tyler, Singapore
POPPYSEED—100 bgs, R J Spitz Inc, Duivendyk, Antwerp
PYRO. BORNICS—10 cs, East Asiatic Co, Surprise, Hong Kong
QUEBRACHO EXTRACT—104 bgs, River Plate Export & Export Corp, P&T Trader, Buenos Aires
SESAME SEED—392 bgs, Pacific Vegetable Oil Co, President Tyler, Hong Kong
250 bgs, Coastal Adventurer, Corinto
SHARK LIVERS—319 tins, Nopco Chemical Co, Contest, Yokohama
400 tins, Nopco Chemical Co, President Wilson, Kobe
112 cs, Stein, Hall & Co, Arcadia Victory, Taku Bar
SUNFLOWER MEAL—1 bg, International Packers Commercial Corp, P&T Trader, Buenos Aires
TUNG OIL—736 dms, Pacific Vegetable Oil Corp, Arcadia Victory, Taku Bar
927 dms, Balfour, Guthrie & Co, Arcadia Victory, Taku Bar
139 dms, Arnhold & Co, Arcadia Victory, Taku Bar
536 dms, Murray Oil Products, Arcadia Victory, Taku Bar
TURPENTINE—25 dms, Coastal Adventurer, Amapala
ULTRAMARINE BLUE—2 cs, Bank of America, Wyoming, Hamburg
UREA—4,000 bgs, Imperial Chemical Industries, Carmia, Liverpool
VARNISH GUMS—80 bgs, Henry W Peabody & Co, General W H Gordon, Manila
WHITING—402 bgs, East Asiatic Co, Golden Gate, Gothenburg
2,000 bgs, Nicholas H Weitzner Co, Golden Gate, Antwerp

## *Canadian Exports: Dec.*

Exports of various products from Canada in December, 1949, as compared with the corresponding month in 1948, have been reported as follows:—

| | December 1949 | December 1948 |
|---|---|---|
| Abrasives, artificial, crude | $831,000 | $1,200,000 |
| Acids | 235,000 | 353,000 |
| Artificial silk and products | 268,000 | 335,000 |
| Asbestos and products | 5,131,000 | 4,345,000 |
| Calcium compounds | 93,000 | 227,000 |
| Chemical products | 1,867,000 | 1,676,000 |
| Copper and products | 6,541,000 | 8,142,000 |
| Fertilizers | 3,806,000 | 2,781,000 |
| Lead and products | 5,145,000 | 4,003,000 |
| Medicinal preparations | 316,000 | 121,000 |
| Nickel | 7,378,000 | 7,303,000 |
| Paints and varnishes | 272,000 | 627,000 |
| Petroleum and products | 403,000 | 1,060,000 |
| Soda and sodium compounds | 531,000 | 244,000 |
| Vegetable fats and oils | 568,000 | 1,237,000 |
| Zinc and products | 3,819,000 | 4,882,000 |

FMC

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From your FIRST source

**DRYERS**

1 Struthers-Wells Stainless Pan Dryer, 7'10"x2'11".
1 Stokes Nickel Rotary Vacuum Dryer, 3'x5'.
5 Struthers Wells Stainless Drum Dryers, 5'x4' and 5'x10'.
1 Buflovak 32"x72" Double Drum Dryer complete.
1 Pittsburg Lectro Dryer Type BWC 250.
2 Devine No. 11 Vacuum Chamber Dryers

**EVAPORATORS—STILLS**

6 Copper and Steel Single, Double and Triple Effect Evaporators; varying capacities.
8 Vacuum Pans in Copper, Aluminum and Steel, all sizes.
2 Pfaudler Glass Lined, 500 gal. and 2,500 gal.

**FILTERS and FILTER PRESSES**

1 Turl Type "B" Auto Filter.
1 Oliver Dorrco Rotary Vacuum Filter, 6'x3'.
2 United Oliver Rot. Vac. Filters, 5'3"x 6'; 6'x3'.
2 Sweetland Pressure Leaf Type Filters, No. 7 and No. 9.
1 Shriver 30" Cast Iron 28 chamber Filter Press.
5 Cast Iron 36" Filter Presses, 45 chamber.
3 NEW Sperry 42" Aluminum Filter Presses, 34 chamber.

**BALL and PEBBLE MILLS**

2 Day Steel Ball Mills, 24"x20" and 30"x20".
1 Abbe Jacketed Steel Ball Mill, 30"x36".
1 Patterson Pebble Mill, 4'x5' motorized.
1 Patterson Buhrstone Lined Mill, 6'x5'.

**MILLS and GRINDERS**

6 Fitzpatrick Stainless Model D Comminutors.
5 Mikro Pulverizers from Bantam to No. 4.
1 Bauer 36" Double Runner Attrition Mills (2 50 H.P. motors).
7 Three Roller Mills, 12"x30" and 16"x40".

**MIXERS**

12 Ribbon Type Powder Mixers, 200 lb. to 10,000 lb.
40 Double Arm Heavy Duty Jacketed Mixers up to 150 gal.
3 Tumbling Batch Mixers, 20, 80 and 120 cu. ft.
1 Readco 210 gal. Jacketed Ribbon Type Mixer.
1 Readco Stainless 75 gal. Double Arm Mixer.
2 Stainless Lab. size (3 gal.) W.&P. Double Arm Mixer.
1 Day 40 gal. Nickeled Pony Mixer.

**STAINLESS STEEL KETTLES TANKS and VACUUM PANS**

Closed Top Jacketed Vessels, 3'x5': 4'x5' and 5'x8'.
3 Open Top Jacketed Tanks, 65"x65"; full jackets
3 NEW 5000 Gal. S.S. Tanks

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### STAINLESS STEEL SIFTERS

10—No. 71 J. H. Day Co. "Roball" Sifters, single deck, screening surface 40" x 84", with stainless steel Sieve frames, screens, feed and discharge hoppers, etc., each with 2 H.P. Motor and steel stand. Used 3 times only.

2—#12 SWEETLAND FILTERS, 36 leaves on 4", also 72 on 2".
1—42" x 42" SHRIVER FILTER PRESS, Cast Iron, Plate and Frame, Open Delivery, 41 Chambers; also 39" x 39" Kilby, 46 plates, 47 frames.
2—900 gal. closed, jack., agit. STEEL KETTLES, 10 H.P. Motors & drives.
1—2,000 gal. STEEL KETTLE, jack., open top, agit., 7' dia. x 7'6" deep.
2—BAKER PERKINS MIXERS, size 17. Jacketed, 200 gallon.
1—VACUUM SHELF DRYER, 17 shelves, 40" x 43".
1—No. 4-TH MIKRO PULVERIZER. Rebuilt—immediate shipment.
2—200 gal. PATTERSON PEBBLE MILLS, Buhrstone-lined, 4' x 5'.
1—300 gal. PATTERSON HIGH CHROME MANGANESE BALL MILL, 54" x 54", jacketed, with drive and motor.
1—J. H. Day Aluminum Horiz. 1,000# DRY POWDER MIXER.
1—8' x 12' OLIVER ACID-PROOF FILTER, lead fitted.
1—LOUISVILLE ROTARY STEAM TUBE DRYER, 6' x 50'.
1—8' x 125' REEVES ROTARY KILN.
1—2' x 15' ROTARY KILN, experimental, complete.
1—6' x 12' ALLIS CHALMERS ROD MILL.
1—ROTARY VACUUM DRYER, 5' x 33'.
1—#1 BANBURY MIXER, chrome plated rotors, drive, 40 HP motor.
2—175 gallon HEAVY PASTE MIXERS.
1—Standard Knapp automatic type TOP AND BOTTOM GLUER-SEALER, #429, self-adjusting for width and height. 25' Compression Unit. Late type. Excellent condition. Attractive price.
8—HORIZONTAL MIXERS, 50# to 3000# capacity.

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